

# Welcome letter

**Dear friends and colleagues,**

Organised by the Heart Failure Association of the European Society of Cardiology (HFA), the Heart Failure congress is a unique forum where cardiologists, interventional heart failure specialists, cardiac surgeons, internists, practicing general physicians, basic scientists, epidemiologists, cardiac nurses, industry affiliates and others have the opportunity to meet and exchange ideas and information.

The Heart Failure congress is an international event open to healthcare professionals interested in any aspect of heart failure from epidemiology, through basic and translational science to prevention (reviewing the treatment of hypertension and post-infarction care), diagnosis (including novel imaging modalities and biomarkers), monitoring (together with remote monitoring), prognostication (risk stratification as well as use of biomarkers), medical and nursing management (including drugs, devices, tele-care and surgery).

With this year's main theme, 'Heart Failure from Alpha to Omega', the congress incorporates interactive sessions, hands-on or meet the expert sessions, and also provide the tools to apply and interpret the latest scientific and clinical expertise to empower the day-to-day work of heart failure specialists today.

The congress will maintain its position as the most important platform for scientific exchange and networking in heart failure worldwide.

Thank you for being with us in Athens!



**Gerasimos Filippatos**  
Heart Failure 2019  
Scientific Chairperson



**Petar Seferovic**  
HFA President  
(2018-2020)

# Heart Failure 2019 Committees

## HEART FAILURE ASSOCIATION - BOARD MEMBERS 2018-2020

**Prof. Petar M. Seferovic (RS)**

*HFA President*

**Prof. Frank Ruschitzka (CH)**

*HFA Past President*

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*HFA President-Elect*

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*Treasurer*

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*Coordinator for National Heart Failure Societies and Working Groups*

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*Chairperson of the Basic Science Section*

**Prof. Johann Bauersachs (DE)**

*Chairperson of the Clinical Section*

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Prof. Wilfried Mullens (BE)

Dr. Maurizio Volterrani (IT)

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Prof. Rudolf De Boer (NL)

## EX-OFFICIO

Prof. Marco Metra (IT)

*Editor in Chief,*

*European Journal of Heart Failure*

Prof. Stefan D. Anker (DE)

*Editor in Chief, ESC Heart Failure*

Prof. Gerasimos Filippatos (GR)

*Chair, Scientific Programme Committee  
Heart Failure 2019*

Prof. Thomas Thum (DE)

*Chair, WG on Myocardial Function*

## SUI GENERIS

Prof. Massimo Piepoli (IT)

Prof. Piotr Ponikowski (PL)

# Heart Failure Association

## This is what we do

### Membership

- › Gold, Silver and Regular
- › Heart failure specialists of Tomorrow (HoT)
- › Fellows of the HFA

### Publications

- › European Journal of Heart Failure  
Impact Factor: **10.683**
- › Open access journal: ESC Heart Failure
- › Position Papers

### Advocacy

- › HFA Atlas
- › **50** National Heart Failure Societies & Working Groups
- › **30** countries participating in Awareness Days
- › [heartfailurematters.org](http://heartfailurematters.org)

### Congress

- › Heart Failure Congress
- › HFA Winter Meeting on Translational Heart Failure Research

### Education

- › E-Learning & Webinars
- › Curricula and Certification
- › Postgraduate Course in Heart Failure
- › Clinical Trialists Summer School
- › Guidelines and Registries



Working together for the future of heart failure

# JOIN THE **HEART FAILURE COMMUNITY**

A worldwide organisation  
of healthcare professionals  
with the same interests  
and goals as you



Latest scientific  
information

Networking

Career  
Development

Education

Become a member  
at the HFA / ESC stand

## Get more

Combine HFA Silver Membership with  
ESC Professional Membership to access  
more discounts and learning opportunities.

[www.escardio.org/HFA-membership](http://www.escardio.org/HFA-membership)

# Practical information



## CERTIFICATES

**For attendance** - available from the registration desks as of Monday 27 May midday.

**For presentation** - available for abstract presenters at the poster assistance desk in the poster area



## INTERNET CONNECTION

Free wifi is available at the congress centre. However please note that connectivity is subject to the volume of users.

**Wifi name: hf-congress**

**Wifi password: hf-congress**

Computer with internet access are located in the exhibition.



## INFO POINTS

For any other information, please address the organisers at the registration.



## SECURITY

Please ensure your badge is visible at all times and comply with security controls that you may be subject to within the congress venue.



## CHILDCARE SERVICE

To ensure equal access to education opportunities, we are pleased to offer, via our partner, a limited childcare service onsite staffed by approved childcare providers.

Childcare service is located in a hotel close to the venue (5mn walk). If you would like to take advantage of this service, please register directly at the hotel (free service, first come first served basis):

*The Golden Age Hotel of Athens, Room Kalypso  
Michalakopoulou 57, Athens 115 28 Greece*

## HFA MEMBERS' LOUNGE

The lounge is an exclusive area located above the exhibition where Gold Members and Fellows of the HFA are invited to enjoy breaks and refreshments.

**Become a member at the HFA / ESC stand**



# Don't Miss

## ● Highlights at Heart Failure 2019

- **HFA Grand Debates:** the most popular controversies in the management of heart failure will be debated by specialists, who will defend their arguments in front of their opponent and a panel of world renowned experts.
- **Off the record with experts:** everything you've always wanted to know but never dared to ask! These sessions will open the floor to an informal discussion with world renowned experts on topics relevant to your career.

## ● Special tracks at Heart Failure 2019

- **Guidelines into Practice:** this track will focus on how to implement the ESC Guidelines into routine management of cardiovascular patients. Based on real clinical cases, these sessions will provide you with the tools to improve your daily practice.
- **World Congress on Acute Heart Failure:** an extensive offer of symposia, How-To sessions, debates, educational sessions, late breaking trials and abstract sessions.
- **Basic Science:** a full programme dedicated to basic science includes ten sessions in the room Ljubljana, the Young Investigator Award session in Basic Science, oral abstract sessions and dedicated poster sessions.

## ● Special events at Heart Failure 2019

- **Inaugural session** including the HFA Eugene Braunwald and the HFA Philip Poole Wilson Lectures on Saturday 25 May, 17.45-19.15 Room Trianti.
- **HFA Career Cafe:** in a relaxed atmosphere, with a cup of coffee or tea, young heart failure enthusiasts will be given the opportunity to meet internationally renowned experts in the field. Pre-registration was needed: stay tuned for next year's event!
- **Virtual Case Area:** experience real-life clinical cases on a virtual patient simulator, located Level 0 on your way to Room Mitropoulos everyday during coffee breaks.
- **CPR Workshops:** Register for free for the CPR Workshops. Seats are limited. A dedicated desk on-site will be available in front of the CPR workshop area, located Level 1, in front of Room Lambrakis from Saturday afternoon to Monday afternoon in parallel to scientific sessions.

- **HOT Walk:** public event organised by the Hellenic Society of Cardiology with the support of the Heart failure Specialists of Tomorrow (HoT - HFA young Community). Rendez-vous on Monday at 18:00 in front of the Congress Center for a 3.5 km walk

## ● Special sessions

- **Late Breaking Science:** presenters will share the very latest results of their research. The presentations will be concluded by a review from an expert. Be there to hear about the latest developments in heart failure.
- **Award sessions:** four award sessions at the congress will feature the best abstracts in the field - Young Investigator Awards Clinical & Basic Science, Nursing Investigator Awards and Clinical Case Awards.
- **The year's best papers on heart failure:** this session will review the best papers published throughout the year between three major journals in the field: the *European Journal of Heart Failure*, the *European Heart Journal* and *ESC Heart Failure*.
- **HFA Focus:** clinical case-based interactive sessions that will provide clear take-home messages for you to use in your daily practice.
- **Heart Failure 2019 Highlights:** Experts summarise, by topic, the best findings of the congress. Attend this session to get an overview of the entire congress.





# Download Heart Failure Mobile App



**Search for 'ESC Congresses' or  
'Heart Failure' in App Store® / Google Play.**  
Heart Failure 2019 is now a part of ESC Congresses app.

## Scientific Resources

Select the presentation of interest and click on:  
'View full abstract' or 'Access slides & videos online'



# • Industry @HF 2019

## Acknowledgement

The Heart Failure Association expresses its sincere appreciation to all exhibitors, industry partners and sponsors mentioned below, who have contributed to the success of Heart Failure 2019 in a variety of ways and initiatives.

Abbott	Orion Corporation Orion Pharma
AKCEA THERAPEUTICS	Pfizer Inc
Alnylam Pharmaceuticals	Physicians Academy for Cardiovascular Education
AstraZeneca	Quidel Germany GmbH
Bayer AG	Radcliffe Cardiology
Bioventrix Inc.	Reprise Cardiovascular, Inc.
Boehringer Ingelheim & Eli Lilly Alliance	Roche Diagnostics International Ltd
Boston Scientific International SA	SERVIER
Charité	SERVIER and AMGEN
CHF Solutions	SQ Innovation
Critical Diagnostics	Thermo Fisher Scientific
Fresenius Medical	Vifor (International) AG
Impluse Dynamics Germany GmbH	WeHealth by Servier
Medscape Education	WILEY
Medtronic	Wisepress LTD
MyoKardia	ZOLL CMS GmbH
Novartis Pharmaceuticals AG	

# • Exhibition

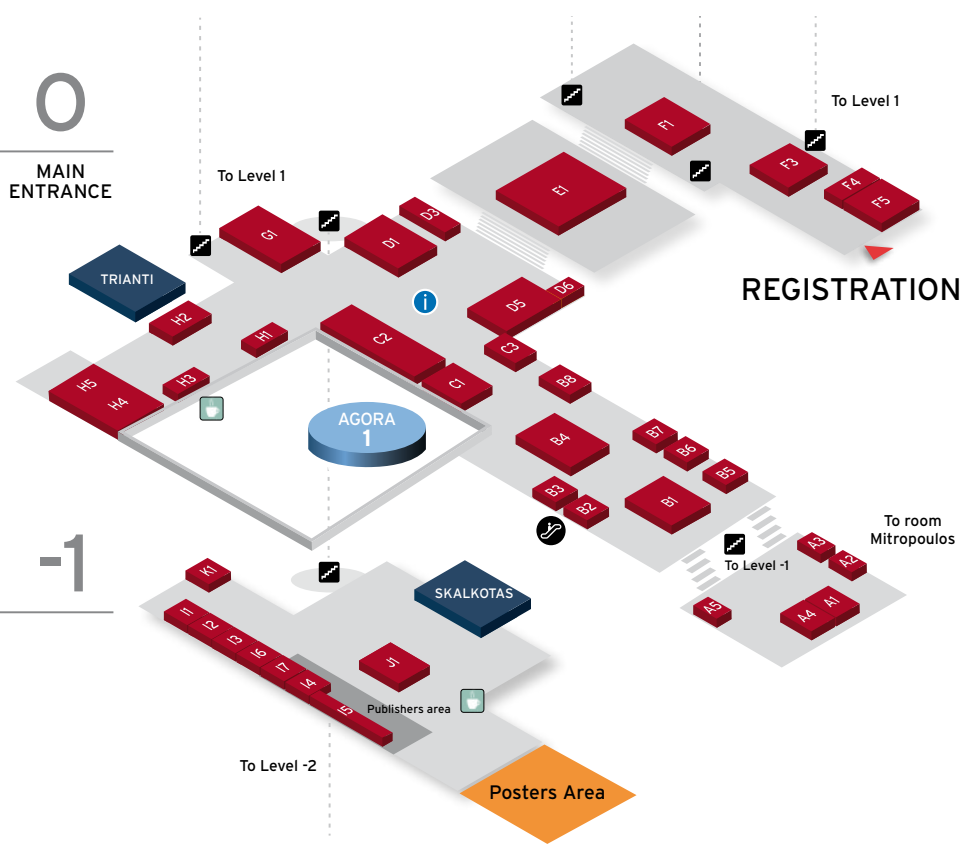
The fight against cardiovascular disease is a shared mission. Our industry partners offer a rich educational programme to delegates throughout the congress. Discover the wide variety of activities from educational sessions to stand activities.

At the heart of the congress centre, the exhibition provides delegates with the opportunity to exchange with key industry experts on critical areas of development and research in cardiovascular products and therapies. It will be a central hub for scientific discussion and exchange during the congress.

Abbott.....	B1	MyoKardia .....	K1
AKCEA THERAPEUTICS.....	F3	Novartis Pharmaceuticals AG.....	C2/D1/D5
Alnylam Pharmaceuticals.....	A1	Orion Corporation Orion Pharma.....	J1
AstraZeneca.....	H4/H5	Pfizer Inc.....	A2
Bayer AG.....	F1	Physicians Academy for Cardiovascular Education.....	B5
Bioventrix Inc.....	I2	Quidel Germany GmbH.....	A3
Boehringer Ingelheim & Eli Lilly Alliance.....	F4/F5	Radcliffe Cardiology.....	I7
Boston Scientific International SA.....	B6/B7	Reprise Cardiovascular, Inc.....	I1
Charité.....	B8	SERVIER.....	E1
CHF Solutions.....	I3	SERVIER and AMGEN.....	C1
Critical Diagnostics.....	B2/B3	Thermo Fisher Scientific.....	D6
Hellenic Society of Cardiology.....	A5	Vifor (International) AG.....	G1/H1/H2/H3
Heart Failure Association (HFA) of the ESC / European Society of Cardiology (ESC).....	E2	WeHealth by Servier.....	B4
Impluse Dynamics Germany GmbH.....	A4	WILEY.....	I4
Medtronic.....	D3	Wisepress LTD.....	I5
		ZOLL CMS GmbH.....	C3

# Exhibition Floor Plan

**OPENING HOURS**  
**Saturday 25 May**  
10:00 - 18:00  
**Sunday 26 May &**  
**Monday 27 May**  
09:00 - 18:00



## ● **Satellite Symposia**

Delegates are cordially invited to attend a series of Satellite Symposia included in Heart Failure 2019 scientific programme. These sessions will allow the review and discussion of recent trials and ongoing studies with the objective of providing the latest information on new therapies and techniques in cardiovascular medicine.

- Abbott
- Akcea Therapeutics
- AstraZeneca
- Bayer AG
- Boehringer Ingelheim & Eli Lilly and Company Alliance
- Boston Scientific
- Charité Berlin
- Fresenius Medical Care
- Medscape Education
- Medtronic
- Novartis
- Pfizer
- Physicians Academy for Cardiovascular Education
- Reprise Cardiovascular
- Roche Diagnostics
- Servier
- Vifor (International) AG
- Zoll

## ● **Satellite Symposia - Experts on the Spot**

These sessions provide delegates with a further opportunity to question and exchange with topic experts in a concise and interactive format on the session content.

- Abbott
- Boehringer Ingelheim & Eli Lilly and Company Alliance
- Charité Berlin
- Novartis
- Servier
- Vifor (International) AG



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- **Practical Tutorials**

Practical Tutorials provide delegates with an opportunity to interact with clinical experts in their field, acquire new techniques, improve current knowledge and ask all they need to know on procedures essential to daily practice.

For details on Practical Tutorials activities, please visit Practical Tutorials rooms or the supporting company on their booths.

- Abbott
- Alnylam
- Orion Pharma

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- **Sponsorship**

The ESC gratefully acknowledges the following sponsors which have contributed to the success of Heart Failure 2019 via support of delegate services and materials, advertisements and other sponsorship opportunities.

- Abbott
- Alnylam Pharmaceuticals
- AstraZeneca
- Medtronic
- Novartis Pharmaceuticals AG
- Physicians Academy for Cardiovascular Education
- SERVIER
- SQ Innovation
- Vifor (International) AG
- ZOLL CMS GmbH



# 90 seconds to win the new ESC textbook!

Come to the HFA/ESC stand

**Update your My ESC account**  
for a chance to win the new  
*ESC Textbook of Cardiovascular  
Medicine 3<sup>rd</sup> edition\**



**Prize draw date:**  
**28 May 2019 - 12:00**

*The ESC textbook will be sent  
directly to your institution*

\*Rules and regulations for participation available  
on dedicated terminal

 **ESC**  
European Society  
of Cardiology

# Sessions by Day

## SATURDAY 25 MAY 2019

### 08:30 - 17:30

- Poster Session 1

POSTER AREA

### 08:30 - 10:00

- Late breaking trial 1 - Acute heart failure
- Focus on diabetes in heart failure
- Management of acute heart failure in the ED: time matters
- Rapid Fire 1 - Basic Science

LAMBRAKIS  
MITROPOULOS

SKALKOTAS  
AGORA 2

### 10:00 - 11:00

- Clinical Case Corner 1 - Catheters and devices
- MODERATED POSTER AREA**
- Moderated Posters Session - Acute heart failure
- MODERATED POSTER AREA**
- Virtual case 1 - Failing or not failing right myocardium?
- VIRTUAL CASE AREA**

IONIAN SEA

MITROPOULOS

### 11:00 - 12:00

- HFA Focus
- Acute heart failure and acute coronary syndrome
- Guidelines in Daily Practice I: Potassium binders
- Lifestyle interventions in chronic heart failure
- Managing heart failure patients with COPD
- Anti-fibrotic therapies in heart failure.
- E-health and social media in heart failure
- Rapid Fire 2 - Biomarker: present and future

TRIANTI  
LAMBRAKIS  
IONIAN SEA  
MITROPOULOS  
SKALKOTAS  
AEGEAN SEA  
AGORA 1  
AGORA 2

### 12:15 - 13:15

- Optimizing the heart failure patients' pathway right from the discharge  
*Sponsored by SERVIER*
- Reshaping the future of heart failure management - Translating innovations to practice in HFpEF  
*Organised by PACE-CME - Physicians' Academy for Cardiovascular Education, supported with educational grants provided by Novartis, Novo Nordisk and Pfizer*
- Overcoming challenges in the treatment of congestion in heart failure  
*Sponsored by Fresenius Medical Care*
- Management of hyperkalaemia in patients with heart failure - Overcoming barriers to optimal renin-angiotensin-aldosterone system inhibitor therapy  
*Organised by MedEd Global Solutions & University of Lorraine, supported with an educational grant from Vifor Pharma*
- Solving the puzzle of heart failure, diabetic kidney disease and risk of stroke: let's fit the pieces together - *Sponsored by Bayer AG*
- How heart failure biomarkers change clinical practice in the management of acute heart failure  
*Sponsored by Roche Diagnostics*
- Problems and optimization of volume management in patients with acute heart failure  
*Sponsored by Reprive Cardiovascular*

TRIANTI  
LAMBRAKIS  
IONIAN SEA  
MITROPOULOS  
SKALKOTAS  
AEGEAN SEA  
AGORA 1

### 13:30 - 14:30

- Cardiac amyloidosis in the spotlight: how to treat today?  
*Organised by Medscape Education, supported with an educational grant from Alnylam Pharmaceuticals*
- Heart Failure, diabetes & SGLT2 inhibition: time to change practice?  
*Organised by PACE-CME, Physicians' Academy for Cardiovascular Education, supported with an educational grant from Boehringer Ingelheim*
- The hyperkalemia challenge in heart failure: what is the role of novel agents?  
*Sponsored by AstraZeneca*
- Current challenges and innovations in the treatment of mitral and tricuspid regurgitation  
*Organised by Charité Berlin, supported with an educational grant from Edwards*
- Functional mitral regurgitation in heart failure: time to treat!  
*Sponsored by Abbott*

### 14:45 - 16:15

- The Grand Debate 1: Advances in medical and interventional treatment of heart failure
- Advances in therapeutic interventions in acute heart failure
- Exercise in heart failure: challenges and opportunities
- Multimodality imaging in heart failure
- How to integrate new technologies in the heart failure clinic
- Translating pathophysiology to the clinic in Takotsubo syndrome
- Myocarditis: from bench to bedside
- Clinical Case Award - Unusual heart failure presentations: teach the teachers

### 16:30 - 17:30

- Peripartum cardiomyopathy: new clinical insights
- Guidelines in Daily Practice II: heart failure and hypertension
- HFpEF: current diagnosis and management
- How to manage psychosocial and CNS disorders in Heart Failure
- Diabetes and heart failure
- Off the record session
- Rapid Fire 3 - Acute heart failure

### 17:45 - 19:30

- Inaugural Session

Trianti

# Sessions by Day

## SUNDAY 26 MAY 2019

### 08:30 - 18:00

- Poster Session 2

POSTER AREA

### 08:30 - 10:00

- Late breaking trial II - Chronic heart failure
- Emerging treatment options in HFpEF
- Clinical dilemmas in the treatment of comorbidities in heart failure
- Functional mitral regurgitation: the road ahead.
- Valve disease in heart failure patients
- Myocarditis: a multi-facet disease.
- Young Investigator Award - Clinical

TRIANTI  
LAMBRAKIS  
IONIAN SEA  
MITROPOULOS  
SKALKOTAS  
AEGEAN SEA  
AGORA 2

### 10:00 - 11:00

- Clinical Case Corner 2 - A story of success. Recovering in heart failure
- MODERATED POSTER AREA**
- Moderated Posters Session - Chronic heart failure
- MODERATED POSTER AREA**
- Virtual Case 2 - A patient with cardiogenic shock
- VIRTUAL CASE AREA**

### 10:15 - 10:45

- Optimize heart failure care program: key learnings from countries - *Sponsored by Servier*
- Management of hyperkalaemia in patients with heart failure - A multidisciplinary approach  
*Organised by MedEd Global Solutions & University of Lorraine, supported with an educational grant from Vifor Pharma*

AGORA 1  
AGORA 2

### 11:00 - 12:30

- The Grand Debate 2: Challenges in heart failure management: mitral regurgitation and atrial fibrillation
- The year's best papers on heart failure
- Cardiac resynchronisation therapy: optimising device use
- Imaging in heart failure: all you need to know  
*Joint Session with the European Association of Cardiovascular Imaging (EACVI)*
- Inflammation in heart failure
- Dilated cardiomyopathies: what are the mechanisms?
- Patient and family engagement: compelling need for improvement
- Nursing Investigator Award

TRIANTI  
LAMBRAKIS  
IONIAN SEA  
MITROPOULOS  
SKALKOTAS  
AEGEAN SEA  
AGORA 1  
AGORA 2

### 12:45 - 13:45

- Sodium-glucose co-transporter 2 inhibition and the heart: lessons from cardiovascular outcomes trials in Type 2 diabetes (EBAC Accredited)  
*Organised by the Sahlgrenska Academy, University of Gothenburg, Sweden, supported with an educational grant from AstraZeneca. Course Director: Professor Karl Swedberg*
- Management of iron deficiency in heart failure: implementing best practices to improve patient outcomes - *Organised by MedEd Global Solutions & Charité Universitätsmedizin Berlin, supported with an educational grant from Vifor Pharma*
- Who should receive the wearable cardioverter defibrillator? Evidence and risk stratification for prevention of sudden cardiac death  
*Sponsored by Zoll*
- An un-nerve-ing disease: diagnosing hATTR amyloidosis beyond the heart  
*Sponsored by Akcea Therapeutics*

IONIAN SEA  
MITROPOULOS  
AEGEAN SEA  
AGORA 1

### 12:45 - 14:00

- An update on device technologies in heart failure  
*Sponsored by Medtronic*
- Treatment choices to optimise benefits for heart failure patients - *Sponsored by Novartis*
- Advances in heart failure management: what if you can do more for more patients?  
*Sponsored by Abbott*

LAMBRAKIS  
TRIANTI  
SKALKOTAS

### 14:00 - 15:30

- Global position paper on endomyocardial biopsy in cardiovascular medicine  
*Joint Session with the Heart Failure Society of America (HFSa) and the Japanese Heart Failure Society (JHFS)*

AEGEAN SEA

### 14:15 - 15:45

- Cardiogenic shock: recent advances and future perspectives
- Assessment and treatment of congestion  
*Joint Session with Inter-American Society of Cardiology*
- Guidelines in Daily Practice III: Myocardial revascularisation in heart failure
- Atrial fibrillation and heart failure  
*Joint Session with the European Heart Rhythm Association (EHRA)*
- HFmEF: clinical and therapeutic dilemmas
- The future of big data strategies in heart failure
- Young Investigator Award - Basic Science and Translational Science

TRIANTI  
LAMBRAKIS  
IONIAN SEA  
MITROPOULOS  
SKALKOTAS  
AGORA 1  
AGORA 2

### 15:45 - 16:30

- Clinical Case Corner 3 - The many faces of valve disease
- MODERATED POSTER AREA**
- Moderated Posters Session - Devices for structural heart disease
- MODERATED POSTER AREA**
- Virtual Case 3 - A patient with infective endocarditis & acute aortic regurgitation
- VIRTUAL CASE AREA**

### 15:55 - 16:25

- Making critical choices for patients at the right time - Join the discussion  
*Sponsored by Novartis*
- When should a cardiologist consider referring a patient for LVAD therapy?  
*Sponsored by Abbott*

AGORA 1  
AGORA 2

### 16:30 - 18:00

- Chronic heart failure: optimising patient management
- Acute heart failure: does clinical settings matter?
- Parade of devices I: attend and learn
- Pulmonary congestion: new approaches
- Cardiorenal axis in heart failure
- Hypertrophic cardiomyopathies: from gene to disease
- Off the record session
- Clinical Case - Advanced interventions from Alpha to Omega

TRIANTI  
LAMBRAKIS  
IONIAN SEA  
MITROPOULOS  
SKALKOTAS  
AEGEAN SEA  
AGORA 1  
AGORA 2



# Sessions by Day

## MONDAY 27 MAY 2019

### 08:30 - 18:00

- Poster Session 3

POSTER AREA

### 08:30 - 10:00

- Late breaking trial III - Innovative and device therapy **TRIANTI**
- Cardio-Oncology in 2019 - The new frontier **LAMBRAKIS**  
*Joint Session with ESC Council of Cardio-Oncology*
- Hot clinical topics in CRT! **IONIAN SEA**
- A crosstalk between diabetes and heart failure **MITROPOULOS**
- Iron disorders: practical guidance for the clinician **SKALKOTAS**
- What is heart failure with preserved ejection fraction? **AEGEAN SEA**
- The omega phase of the heart failure journey: palliative and end-life care **AGORA 1**  
*Joint Session with the Association of Cardiovascular Nursing and Allied Professions (ACNAP)*
- Rapid Fire 4 - Chronic heart failure - Pharmacology **AGORA 2**

### 10:00 - 11:00

- Clinical Case Corner 4 - Have you seen this before? Rare presentations **MODERATED POSTER AREA**
- Moderated Posters Session - Non pharmacological approach to heart failure world **MODERATED POSTER AREA**
- Virtual case 4 - Young decompensated patient with congestive heart failure **VIRTUAL CASE AREA**

### 10:10 - 10:50

- HFA General Assembly

AEGEAN SEA

### 10:15 - 10:45

- Screening, diagnosis and treatment of iron deficiency in chronic heart failure - Practical recommendations **AGORA 1**  
*Organised by MedEd Global Solutions & Charité Universitätsmedizin Berlin, supported with an educational grant from Vifor Pharma*
- New therapeutic options in the treatment of mitral regurgitation: practical considerations **AGORA 2**  
*Organised by Charité Berlin, supported with an educational grant from Edwards*

### 11:00 - 12:30

- Guidelines in Daily Practice IV: patient with acute heart failure and pulmonary embolism. **TRIANTI**
- Advanced heart failure: Update 2019 **LAMBRAKIS**
- Special issues in cardio-oncology **IONIAN SEA**
- Heart failure innovation - Drugs, devices, artificial intelligence **MITROPOULOS**  
*Joint session with Heart failure Association of India*
- Joint Session with Korean Society of Heart Failure **SKALKOTAS**
- Cardiac repair therapies **AEGEAN SEA**
- Heart failure epidemiology and registries **AGORA 1**
- Clinical Case 2 **AGORA 2**

### 12:45 - 13:45

- Know it by heart - New opportunities for cardiologists in the Sodium-Glucose-Co-Transporter 2 (SGLT2) inhibitor era - *Sponsored by Boehringer Ingelheim & Eli Lilly and Company Alliance* **IONIAN SEA**
- Does multi-sensor prediction of heart failure facilitate CRT optimisation? **AEGEAN SEA**  
*Sponsored by Boston Scientific*

### 12:45 - 14:00

- Meet the experts on getting to grips with HFpEF **TRIANTI**  
*Organised by Medscape Education, supported with an educational grant from Novartis*
- Cracking the code to a differential diagnosis of cardiac amyloidosis **LAMBRAKIS**  
*Sponsored by Pfizer*
- Innovative devices to better treat heart failure patients **MITROPOULOS**  
*Organised by Charité Berlin, supported with educational grants provided by Bioventrix, Cardiac Dimensions and Respicardia*
- Fighting advanced heart failure with innovative medical device technology **SKALKOTAS**  
*Sponsored by Abbott*

### 14:15 - 15:45

- Identifying and treating sleep apnea in heart failure **TRIANTI**
- HFA Championships **LAMBRAKIS**
- Short term mechanical circulatory support **IONIAN SEA**
- Practical use of biomarkers: tips and tricks **MITROPOULOS**
- Frailty and fatigue in heart failure: emerging problem in the heart failure clinic. **SKALKOTAS**
- Cancer and heart failure: enemies in treatment? **AEGEAN SEA**
- Rapid Fire 5 - Non-pharmacological treatments: beyond conventional **AGORA 2**

### 15:45 - 16:30

- Clinical Case Corner 5 - Cardio-oncology pearls **MODERATED POSTER AREA**
- Moderated Poster Session - Basic Science **MODERATED POSTER AREA**
- Virtual case 5 - Mysterious myocarditis in a young patient **VIRTUAL CASE AREA**

### 15:55 - 16:25

- Challenges faced in diagnosing and managing HFpEF **AGORA 1**  
*Organised by Medscape Education, supported with an educational grant from Novartis*
- The evolving role of cardiologists: can we help decrease the cardiovascular event burden in patients with type 2 diabetes? **AGORA 2**  
*Sponsored by Boehringer Ingelheim & Eli Lilly and Company Alliance*

### 16:30 - 18:00

- Emerging therapies in heart failure **TRIANTI**
- Guidelines in Daily Practice V: pregnancy and heart failure **LAMBRAKIS**
- Late breaking trial IV - Registries **IONIAN SEA**  
*Joint Session with the working group on pharmacotherapy of the ESC*
- Female heart failure: what is different? **MITROPOULOS**
- Takotsubo syndrome: from pathophysiology to the clinic **SKALKOTAS**
- Upcoming and novel drugs in heart failure **AEGEAN SEA**
- Rapid Fire 6 - Risk stratification and prognosis **AGORA 2**

### 18:00

- HOT Walk

# Sessions by Day

## TUESDAY 28 MAY 2019

### 08:30 - 12:30

- Poster Session 4

### 08:30 - 10:00

- Parade of devices 2: attend and learn
- Heart failure in cardiomyopathies: differences in diagnosis and management
- Heart transplantation: everything you need to know
- Clinical approach to cardio-oncological patient
- Rapid Fire 7 - Improving our insights: biomarkers, imaging, scores

### POSTER AREA

### LAMBRAKIS

### IONIAN SEA

### SKALKOTAS

### AEGEAN SEA

### AGORA 2

### 10:00 - 11:00

- Clinical Case Corner 6 - From inflammation to infiltration

### MODERATED POSTER AREA

- Moderated Posters Session: Everlasting questions, new answers

### MODERATED POSTER AREA

- Virtual case 6 - Heart transplantation in a HIV-positive patient

### VIRTUAL CASE AREA

### 11:00 - 12:30

- Heart Failure 2019 Highlights

LAMBRAKIS



# Heart Failure 2019

## Practical Tutorials

### **Devices, Imaging, Clinical Practice**

Dedicated programmes from experts on the practical application of knowledge and skills

**Sign up now in the Practical Tutorials room  
or at the sponsor's stand**

**Places are limited**

## Practical Tutorials 2

**Sponsored by Abbott**

- *Understand how you can optimize mitral regurgitation treatment with Transcatheter Mitral Valve Repair (TMVR) in heart failure patients: from diagnosis to patient follow-up*
- *Interact with transcatheter mitral valve repair device and transthoracic echocardiographic ultrasound system*

**15:00 - 15:15****Transthoracic echocardiography & mitral regurgitation 15 minutes challenge!**

Chairperson(s): E. Agricola (Milano, IT)

**15:15 - 15:45****Treating mitral regurgitation in heart failure patients: from diagnosis to follow-up**

Chairperson(s): E. Agricola (Milano, IT)

**15:45 - 16:15****Hands-on session: how to assess mitral valve and mitral regurgitation with transthoracic echocardiographic ultrasound**

Chairperson(s): E. Agricola (Milano, IT)

**16:15 - 16:45****Hands-on session: transcatheter mitral valve repair device**

Chairperson(s): D. Van Hees (Diegem, BE)

Practical Tutorials 3

**Sponsored by Alnylam**

- Increase awareness for hereditary (hATTR) amyloidosis as a cause of heart failure
- Highlight the importance of recognizing cardiological, neurological, and other associated symptoms to ensure a holistic approach in the diagnosis and management of patients with hATTR amyloidosis
- Optimize an early and accurate diagnosis of hATTR amyloidosis with cardiac manifestations using modern diagnostic imaging tools
- Use real-life case studies to illustrate and educate on the presentation of hATTR amyloidosis with cardiac manifestations and interpretation of diagnostic imaging results

14:45 - 16:15

**Amyloidosis: a not so rare disease? Practical approaches to identifying cardiac manifestations of hATTR amyloidosis**

14:45	Identifying cardiac manifestations and other multisystemic symptoms of hATTR amyloidosis. 1 A. Kristen (Darmstadt,DE)	
15:05	Evaluate diagnostic approaches and challenges in diagnosing hATTR amyloidosis - Learning from patient cases. 2 C. Rapezzi (Bologna,IT)	
15:25	Update 2019: learning from real-life diagnoses. 3 D. Bonderman (Wien,AT)	
15:45	Q&A - Amyloidosis: a not so rare disease? Practical approaches to identifying cardiac manifestations of hATTR amyloidosis. 4 A. Kristen (Darmstadt, DE); C. Rapezzi (Bologna, IT); D. Bonderman (Wien, AT)	

## Practical Tutorials 1

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*The use of inotropes for correcting hemodynamic dysfunction in patients with congestive heart failure has been described over many decades. However, negative or insufficient data has been collected on the effects of cardiac glycosides, catecholamines and phosphodiesterase inhibitors on quality of life and survival. More recently, the calcium sensitizer and potassium channel opener levosimendan have been proposed as a safer inodilator. This series of Practical Tutorials focus on how to use safely and effectively levosimendan in acute and advanced heart failure.*

**09:15 - 09:35**

**Hemodynamic balance in acute and advanced heart failure: intra-venous vaso-active options - The Acute Heart Failure (AHF) settings: guidelines and definition of AHF, therapeutic options**

Chairperson(s): J.M. Garcia-Pinilla (Malaga, ES)

**09:35 - 09:55**

**Hemodynamic balance in acute and advanced heart failure: intra-venous vaso-active options - The Acute Heart Failure settings: role of hemodynamic active drugs, differential effects of drug families**

Chairperson(s): D. von Lewinski (Graz, AT)

**09:55 - 10:15**

**Hemodynamic balance in acute and advanced heart failure: intra-venous vaso-active options - The Acute Heart Failure settings: clinical practice in AHF with different etiologies**

Chairperson(s): J.T. Parisis (Athens, GR)

**11:15 - 11:35**

**Hemodynamic balance in acute and advanced heart failure: intra-venous vaso-active options - The Advanced Heart Failure settings: physiological effects of vaso-active drugs in AdHF**

Chairperson(s): P. Agostoni (Milan, IT)

**11:35 - 11:55**

**Hemodynamic balance in acute and advanced heart failure: intra-venous vaso-active options - The Advanced Heart Failure settings: guidelines and definition of AdHF, therapeutic options**

Chairperson(s): P. Yerly (Lausanne, CH)

## Practical Tutorials 1

### Sponsored by Orion Pharma

11:55 - 12:15

Hemodynamic balance in acute and advanced heart failure: intra-venous vaso-active options - The Advanced Heart Failure settings: when does acute decompensation start?

Chairperson(s): G. Polzl (Innsbruck, AT)

13:15 - 13:35

Hemodynamic balance in acute and advanced heart failure: intra-venous vaso-active options - Differential renal effects of vasoactive drugs: cardio-renal syndrome

Chairperson(s): E. Zima (Budapest, HU)

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Hemodynamic balance in acute and advanced heart failure: intra-venous vaso-active options - Differential renal effects of vasoactive drugs: different effects of Levosimendane on renal function in AHF and restrictive cardiomyopathy

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Hemodynamic balance in acute and advanced heart failure: intra-venous vaso-active options - Differential renal effects of vasoactive drugs: clinical practice

Chairperson(s): K. Karason (Gothenburg, SE)

15:15 - 15:35

Hemodynamic balance in acute and advanced heart failure: intra-venous vaso-active options - AHF or CS as a consequence of Acute Coronary Syndrome: therapeutic options and clinical practice for ACS-induced AHF

Chairperson(s): A. Recio Mayoral (Seville, ES)

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Chairperson(s): D.T. Farmakis (Athens, GR)

## Practical Tutorials 2

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## Practical Tutorials 2

### Sponsored by Abbott

12:15 - 12:45

**Hands-on session: transcatheter mitral valve repair device**

Chairperson(s): D. Van Hees (Diegem, BE)

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# Heart Failure 2019

## Saturday 25 May

SATURDAY



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# INAUGURAL SESSION

Saturday 25 May 17:45 - 19:15, Room TRIANTI

Chairpersons: P. Seferovic (RS), A. Coats (UK), G. Filippatos (GR)

17:45 - 17:50

Welcome from the President of the HFA  
P. Seferovic (RS)

17:50 - 17:55

Welcome to Heart Failure 2019 & World Congress on Acute Heart Failure  
G. Filippatos (GR)

17:55 - 18:00

Welcome from the President of the ESC  
B. Casadei (UK)

18:05 - 18:10

The HFA Philip Poole Wilson lecture Introduction of M. Jessup  
Andrew Coats (UK)

18:10 - 18:25

HFA Philip Poole Wilson lecture:  
Heart Failure Guidelines: what is the alpha and what is the omega?  
M. Jessup (USA)

18.25 - 18.30

The HFA Eugene Braunwald lecture Introduction of M. Yacoub  
To be announced

18.30 - 18.45

The HFA Eugene Braunwald lecture: lecture title to be announced  
M. Yacoub (UK)

18.50 - 19.00

Heart Failure Specialists of Tomorrow Awards  
E. Jankowska (PL)

19.00 - 19.05

Opening Address  
P. Seferovic (RS)

## Morning Sessions

08:30 - 10:00

RAPID FIRE ABSTRACTS

AGORA 2

### Rapid Fire 1 - Basic Science

Chairperson(s): J.L. Balligand (Brussels, BE)

- |       |   |    |
|-------|---|----|
| 08:30 | NPM accelerated vascular inflammation and endothelial dysfunction in atherosclerosis progression through NF-kappaB pathway<br>C. Rao, B. Liu, F. Li, D. Huang, K. Huang, N. Dong (Wuhan, CN)  | 5  |
| 08:36 | Dual Regulation of SUMO2 and STAT1 by HectD3 Protects Heart from Hypertrophy and Inflammation<br>A. Rangrez, A. Borlepawar, N. Schmiedel, L. Christen, A. Bernt, A. Helbig, A. Jungmann, S. Sossalla, A. Tholey, O. Mueller, D. Frank, N. Frey (Kiel, Heidelberg and Regensburg, DE)  | 6  |
| 08:42 | A translational mouse model of HFpEF<br>C. Withaar, L.M.G. Meems, C. Gehlken, H.H.W. Sillje, A.A. Voors, R.A. De Boer, C.S.P. Lam (Groningen, NL)   | 7  |
| 08:48 | Diastolic dysfunction and HFpEF characteristics are exacerbated with ageing in smoothelin-like 1 (SMTNL1)-deficient mice<br>M. Murali, D. Belke, M. Chappellaz, W.C. Cole, J.A. Macdonald (Calgary, CA)   | 8  |
| 08:54 | L-2-hydroxyglutarate dehydrogenase (L2HGDH) is a novel metabolic target protecting from cardiac hypertrophy and heart failure<br>A. Remes, L. Ding, B. Kamlage, U. Rennefahrt, S. Hille, A. Jungmann, K. Rapti, H.A. Katus, N. Frey, O.J. Mueller (Kiel, Berlin and Heidelberg, DE)   | 9  |
| 09:00 | Increased granulocyte neprilysin (CD10) expression is associated with better prognosis in patients with heart failure with reduced ejection fraction<br>H. Arfsten, J. Novak, A. Cho, G. Goliasch, P.E. Bartko, G. Strunk, M. Huelsmann, N. Pavo (Vienna, AT)   | 10 |
| 09:06 | The role and mechanism of Kir6.1 in diabetic cardiomyopathy<br>Q. Zhu, J. Wang, Y. Li, P. Duan (Beijing, CN)  | 11 |
| 09:12 | Regulatory effect of enoyl coenzyme a hydratase 1 on left ventricular remodeling and dysfunction after acute myocardial infarction<br>L. Baoqing, C. Rao, F. Li, N. Dong (Wuhan, CN)  | 12 |
| 09:18 | Purified exosome product and extracellular vesicles: treatment for acute myocarditis, dilated cardiomyopathy and heart failure<br>K. Bruno, D.N. Diflorio, A.R. Hill, P.G. Stalboerger, L.T. Cooper Jr, A. Behfar, D. Fairweather (Jacksonville and Rochester, US)  | 13 |
| 09:24 | Impact of environmental factors on heart failure decompensations<br>V. Escolar Perez, A. Lozano, N. Larburu, G. Artola, R. Alvarez, B. Juez, J. Kerexeta, A. Artetxe, A. Echebarria, A. Azcona (Bilbao and San Sebastián, ES)   | 14 |
| 09:30 | Acute intravenous infusion of the beta-3 adrenergic receptor antagonist APD418 improves left ventricular function in dogs with advanced heart failure: a dose escalation study<br>H.N. Sabbah, K. Zhang, J. Xu, R.C. Gupta, J. Adams (Detroit and San Diego, US)  | 15 |
| 09:36 | Pharmacological inhibition of non-cardiac ATGL by Atglistatin improves myocardial deformation in a murine model of cardiac fibrosis<br>A. Thiele, N. Beyhoffer, A. Blumrich, D. Ritter, J. Grune, E. Smeir, K. Luettgess, R. Klopffleisch, R. Zechner, R. Breinbauer, U. Kintscher, A. Foryst-Ludwig (Berlin, DE; Graz, AT) | 16 |
| 09:42 | Omecamtiv mecarbil: friend and foe - effects beyond positive inotropy<br>G.A. Fulop, A. Olah, R. Porszasz, B. Horvath, A. Kovacs, L. Nagy, T. Csipo, S.L. Helgadottir, B. Juhasz, P. Nanasi Jr, B. Merkely, Z. Csanadi, T. Radovits, Z. Papp, A. Toth (Budapest and Debrecen, HU)   | 17 |
| 09:48 | Circulating sphingosine-1-phosphate as a non-invasive biomarker of heart transplant rejection<br>E. Rosello-Lleti, C. Gil-Cayuela, M. Roca, F. Lago, J.R. Gonzalez-Juanatey, E. Sanchez-Lacuesta, L. Martinez-Dolz, M. Portoles (Valencia and Santiago de Compostela, ES)   | 18 |

## Morning Sessions

08:30 - 10:00

RAPID FIRE ABSTRACTS

AGORA 2

09:54 **Genome-wide gene expression analysis reveals pathomechanisms in patients with heart failure and preserved ejection fraction (HFpEF) - Insights from the Leipzig Heart Study** 19  
 K.P. Rommel, H. Kirsten, C. Bese, F. Schlotter, M. Von Roeder, A. Teren, F. Beutner, U. Ceglarek, J. Thiery, H. Thiele, R. Burkhardt, M. Scholz, P. Lurz (Leipzig, DE)

08:30 - 10:00

SPECIAL SESSION

LAMBRAKIS

### Late breaking trial I - Acute heart failure



Chairperson(s): F. Ruschitzka (Zurich, CH); G. Filippatos (Athens, GR)  
**World Congress on Acute Heart Failure**

08:30 - 10:00

SYMPOSIUM

MITROPOULOS

### Focus on diabetes in heart failure

Chairperson(s): P. Seferovic (Belgrade, RS); M. Mamas (Stoke On Trent, GB)

08:30 **Diabetes-related cardiomyopathy.** 26  
 W. Paulus (Amsterdam, NL)

08:52 **The cardiologist perspective on GLP-1 receptor agonist and DPP-4 inhibitors.** 27  
 J. McMurray (Glasgow, GB)

09:15 **Positioning SLG-2 inhibitors in the treatment of diabetes in heart failure.** 28  
 S. Anker (Berlin, DE)

09:37 **Treatment of type 2 diabetes with/without heart failure: pending results from ongoing trials.** 29  
 J. Butler (Atlanta, US)

08:30 - 10:00

SYMPOSIUM

SKALKOTAS

### Management of acute heart failure in the ED: time matters



Chairperson(s): A. Mebazaa (Paris, FR); A. Trikas (Athens, GR)

08:30 **Focused ultrasound** 30  
 E. Polyzogopoulou (Athens, GR)

08:52 **Biomarkers** 31  
 G. Giamouzis (Larissa, GR)

09:15 **Risk stratification** 32  
 O. Miro (Barcelona, ES)

09:37 **Early management** 33  
 S. Xydonas (Chalandri, GR)



## Morning Sessions

10:00 - 11:00

CLINICAL CASE POSTERS

MODERATED POSTER AREA

### Clinical Case Corner 1 - Catheters and devices

Chairperson(s): M. Wallner (Graz, AT); M.B. Yilmaz (Izmir, TR)

10:00	Acute myocardial infarction in cardiogenic shock: beyond coronary anatomy S. Alegria, T. Silva, A. Ferreira, I. Cruz, A. Marques, A.R. Pereira, A. Briosa, D. Sebaiti, I. Rangel, O. Simoes, H. Pereira (Almada, PT)	34
10:06	Ischemic cardiomyopathy late complication, an unusual aspect. J. Alves Guimaraes, F. Goncalves, S. Borges, J.J. Monteiro, J. Trigo, S. Carvalho, J.I. Moreira (Vila, PT)	35
10:12	The early onset of heart failure caused by myocardial infarction that is thrombus masquerade ballet D. Poluszynska, R. Romanek, T. Wnuk, P. Grzelakowski, Ł. Kafarski, A. Goch (Bydgoszcz, PL)	36
10:18	Heart failure as an acquired coronary fistulamanifestation in the adulthood: a rare case of a coronary arterial fistula M.J. Rodriguez, E.J. Pardo Aparicio, L.A. Medina, M.D. Ocampo Gonzalez (Bogota and Bucaramanga, CO)	37
10:24	ICD and heart transplantation in a child with ARVC A. Mikhaylov, R. Tatarskiy, D. Lebedev, I. Nikitina, E. Vasickina, K. Chueva (Saint-Petersburg, RU)	38
10:30	Mechanical circulatory support before and after heart transplantation N. Piatrovich, L. Shestakova, Y. Ostrovsky (Minsk, BY)	39
10:36	Extracorporeal support life support. Insights form ventricular support with ecmo, levitronix and heartmate 3 in a patient with fulminant myocarditis and poor prognostic indicators G.C. Giraldo, L. Salazar, A. Figueredo, C. Pizarro, L.E. Echeverria (Cali and Bucaramanga, CO)	40
10:42	Blood-loss minimizing removal technique of extracorporeal membrane oxygenation circuit in a patient unable to receive blood transfusions because of religious belief S.M. Park, M.H. Jung, M.S. Kim, H.H. Choi, K.S. Hong, H. Lee (Chuncheon and Gumi, KR)	41
10:48	Clinical case of multiple thrombi in amphetamine-associated cardiomyopathy N. Dovganych, S. Kozhukhov (Kyiv, UA)	42
10:54	Intravascular Ultrasound As An Effective Tool Of The Left Main Critical Lesion Detection In A LVEF-preserved Allograft Within Cardiac Allograft Vasculopathy Surveillance. PCI Management Of The Case. A. Barysevich, O. Polonetsky, V. Stelmashok, A. Zakharevich, A. Zatsepin, N. Strygo, E. Kurlianskaya, L. Rachok (Minsk, BY)	43

10:00 - 11:00

MODERATED POSTERS

MODERATED POSTER AREA

### Moderated Poster Session - Acute heart failure

Chairperson(s): H.P. Brunner-La Rocca (Maastricht, NL)

10:00	External validation and comparison of the CardShock and IABPII shock risk scores in real-life cardiogenic shock patients M. Rivas Lasarte, J. Sans-Rosello, E. Collado Lledo, V. Gonzalez Fernandez, J. Fernandez Martinez, F. Noriega Sanz, F. Hernandez Perez, J. Segovia, A. Viana, R.M. Lidon, A. Ariza, A. Sionis (Barcelona and Madrid, ES)	44
10:06	Adverse Dose Dependent Effects of Morphine Therapy in Acute Heart Failure O. Caspi, N.R. Naami, E.A. Halfin, D.A. Aronson (Haifa, IL)	45
10:12	Prevalence and prognostic impact of anaemia, renal insufficiency, and iron deficiency in patients discharged from hospital after decompensation for systolic heart failure M. Kordsmeyer, G. Gueder, C. Morbach, M. Kaspar, S. Brenner, S. Stoerk, G. Ertl, C.E. Angermann (Wurzburg, DE)	46

## Morning Sessions

10:00 - 11:00	MODERATED POSTERS	MODERATED POSTER AREA
10:18	<b>Admission high-sensitivity troponin T and NT-proBNP for outcome prediction in acute heart failure</b> A. Aimo, J.L. Januzzi, C. Mueller, O. Miro, D. Pascual Figal, J. Jacob, P. Herrero-Puente, P. Llorens, D. Wussler, N. Kozuharov, Z. Sabti, T. Breidhardt, G. Vergaro, C. Prontera, M. Emdin (Pisa, IT; Boston, US; Basel, CH; Barcelona, Murcia and Alicante, ES)	47
10:24	<b>Increased NT-proBNP levels most significantly predict 30-day mortality in admitted out-of-hospital-cardiac-arrest (OHCA) patients</b> A. Sinkovic, K.M. Novak, M. Martincic (Maribor, SI)	48
10:30	<b>The clinical use of bioactive adrenomedullin and proenkephalin A in detecting congestion, renal dysfunction and clinical outcomes in two independent acute heart failure cohorts</b> J. Molvin, A. Jujic, S. Navarin, O. Melander, G. Zoccoli, O. Hartmann, A. Bergmann, J. Struck, E. Bachus, S. Di Somma, M. Magnusson (Malmo, SE; Rome, IT; Hennigsdorf, DE)	49
10:36	<b>Heart failure day treatment centre (HFDTCC), a novel service design</b> T. Castiello, G. Williams, A. Krakowiak (London, GB)	50
10:42	<b>5-year outcome of acute heart failure in Korea: results from the Korean acute heart failure registry (KorAHF)</b> G.C. Oh, H.J. Cho, H.Y. Lee, M.C. Cho, B.H. Oh (Seoul, Cheongju and Incheon, KR)	51
10:48	<b>Surface respiratory electromyography and dyspnea in acute heart failure patients</b> D. Luiso, J.A. Villanueva, L.C. Belarte-Torner, A. Fort, Z. Blazquez-Bermejo, S. Ruiz, R. Farre, J. Rigau, J. Marti-Almor, N. Farre (Barcelona, Girona and Madrid, ES)	52
10:54	<b>Residual congestion on discharge for Heart Failure assessed by impedance technique predicts 30-day and one-year Heart Failure death. Results of IMPEDANCE-HF extended trial</b> M. Kleiner Shochat, D. Kapustin, M. Fudim, M. Kazatsker, Y. Levy, A. Asif, I. Kleiner, J.M. Weinstein, G. Panjra, A. Roguin, S. Meisel (Hadera and Beer Sheva, IL; Toronto, CA; Durham and Washington, US)	53

10:00 - 11:00	HOW-TO SESSION	VIRTUAL CASE AREA
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### Virtual case 1 - Failing or not failing right myocardium?

Chairperson(s): J. Grapsa (London, GB); M. Anker (Berlin, DE)

*A 52-year old man suffering from aortic aneurysm rupture was transferred immediately to a specialist heart and lung centre, for an emergency surgical repair of ruptured aneurysm*

11:00 - 12:00	RAPID FIRE ABSTRACTS	AGORA 2
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### Rapid Fire 2 - Biomarker: present and future

Chairperson(s): J. Wilfred (Bergisch Gladbach, DE); H.P. Brunner-La Rocca (Maastricht, NL)

11:00	<b>Role of neprilysin in myocardial tissue Renin-Angiotensin-System (RAS) of the failing heart</b> N. Pavo, H. Arfsten, G. Golasch, P.E. Bartko, S. Prausmueller, G. Spinka, J.F. Novak, A. Cho, R. Wurm, M. Poglitsch, M. Huelsmann (Vienna, AT)	54
11:05	<b>The value of tubular maximum phosphate reabsorption capacity, a functional proximal tubular parameter in heart failure</b> J.E. Emmens, M.H. De Borst, K. Damman, A.A. Voors, J.M. Ter Maaten (Groningen, NL)	55
11:10	<b>The risk of bias of current novel circulating biomarker studies for the detection of HFpEF and left ventricular diastolic dysfunction</b> M. Henkens, S. Rimmelzwaal, A.J. Ballegooijen Van, E. Robinson, A. Barandiaran Aizpurua, A.G. Raafs, J.A.J. Verdonschot, M.R. Hazebroek, S. Sanders-Wijk Van, V.P.M. Empel Van, R. Vos, H.P. Brunner-La Rocca, J.W.J. Beulens, S.R.B. Heymans (Maastricht and Amsterdam, NL)	56

## Morning Sessions

11:00 - 12:00	RAPID FIRE ABSTRACTS	AGORA 2
11:16	<b>The effect of liraglutide on natriuretic peptides and copeptin in heart failure patients</b> R. Nielsen, A. Jorsal, R.S. Tougaard, J. Rasmussen, M. Schou, L. Videbaek, I. Gustafsson, A. Flyvbjerg, H. Wiggers, L. Tarnow, C. Kistorp (Aarhus, Svendborg, Copenhagen, Odense and Region Zealand, DK)	57
11:21	<b>Improvement of existing strategies to prevent heart failure after myocardial infarction: a potential role for thrombopoietin</b> L. Malinova, N. Furman, P. Dolotovskaya, N. Puchinyan, T. Denisova (Saratov, RU)	58
11:27	<b>Plasma Tenascin-C: a novel prognostic biomarker in heart failure with preserved ejection fraction</b> P. Kanagala, J.R. Arnold, J.N. Khan, A. Singh, G.S. Gulsin, D.C.S. Chan, A.S.H. Cheng, J. Yang, Z. Li, P. Gupta, I.B. Squire, G.P. Mccann, L.L. Ng (Liverpool, Leicester and Kettering, GB; Princeton, US)	59
11:32	<b>Phosphodiesterase 9A - novel biomarker or potential therapeutic target in patients with heart failure and preserved ejection fraction?</b> K.P. Rommel, C. Besler, J. Moerbitz, H. Kirsten, M. Scholz, K. Kingel, J. Thiery, R. Burkhardt, P. Buettner, V. Adams, H. Thiele, P. Lurz (Leipzig, Tuebingen and Dresden, DE)	60
11:38	<b>Evolution of low risk natriuretic peptide to higher risk - Do we have a phenotype?</b> N. Blake, J. Gallagher, C. Watson, E.O. Connell, M. Ledwidge, K. Mc Donald (Dublin, IE)	61
11:43	<b>Biomarker correlates of coronary microvascular dysfunction and diastolic dysfunction in heart failure with preserved ejection fraction</b> J. Tromp, C. Hage, S. Sanders-Van Wijk, S. Svedlund, A. Saraste, U.L. Faxen, M. Lagerstrom Fermer, L.M. Gan, L.H. Lund, S.J. Shah, C.S.P. Lam (Singapore, SG; Stockholm and Gothenburg, SE; Maastricht, NL; Turku, FI; Chicago, US)	62
11:49	<b>Serum endothelin levels in heart failure patients with reduced ejection fraction; a preliminary study</b> G. Capar, H. Eruzun, Y. Arman, I. Toprak, U. Yilmaz, O. Kutlu, I. Aslan, S. Aydin Yoldemir, Y. Kutlu, M. Ozcan, S. Irmak, G. Guven, T. Tupek (Istanbul, TR)	63
11:54	<b>Global longitudinal strain predicts future cardiovascular hospitalizations and death in patients with non-ischemic cardiomyopathy and recovered left ventricular ejection fraction: a multicenter study</b> L. Adamo, M. Merlo, F. Clemenza, A. Perry, E. La Franca, L. Ajello, D. Bellavia, A. Boscutti, M. Gobbo, A. Kraja, G. Romano, D. Stolfo, J. Gorcsan, G. Sinagra, D. Mann (St. Louis, US; Trieste and Palermo, IT)	64

11:00 - 12:00	SPECIAL SESSION	TRIANTI
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### HFA Focus

Chairperson(s): M.F. Piepoli (Piacenza, IT); C. Maack (Wuerzburg, DE); J. Steffel (Zurich, CH)



SPECIAL SESSION



MOBILE APP SESSION

*This is a mobile app interactive session, Audience will be invited to interact during the presentations by answering questions when prompted by the speakers and can use «Ask» to send their questions directly to the chairpersons*

11:00	<b>A case of a patient with heart failure, atrial fibrillation and wide QRS - indication for a CRT-D?</b> M. Polovina (Belgrade, RS)	65
11:15	<b>Panel discussion.</b> M.F. Piepoli (Piacenza, IT); J. Steffel (Zurich, CH); C. Maack (Wuerzburg, DE)	66
11:30	<b>A case of a patient with chronic kidney disease and hyperkalemia: how to optimise RAAS inhibitors?</b> G. Savarese (Stockholm, SE)	67
11:45	<b>Panel discussion.</b> M.F. Piepoli (Piacenza, IT); C. Maack (Wuerzburg, DE); J. Steffel (Zurich, CH)	68

## Morning Sessions

11:00 - 12:00

SYMPOSIUM

LAMBRAKIS

### Acute heart failure and acute coronary syndrome

Chairperson(s): J.M. Weinstein (Beer-Sheva, IL); C. O'Connor (Durham, US)

World Congress on Acute Heart Failure

11:00	Clinical presentation vs. treatment strategies. S.O. Rosillo Rodriguez (Madrid, ES)	69
11:15	Diagnostic pitfalls: separating myocardial infarction from injury. E. Giannitsis (Heidelberg, DE)	70
11:30	Myocardial revascularization strategies. M. Roffi (Geneva, CH)	71
11:45	Management of complications. M. Sousa Uva (Carnaxide, PT)	72

11:00 - 12:00

Guidelines in Daily Practice

Ionian Sea

### Guidelines in Daily Practice I: Potassium binders

Chairperson(s): B. Pitt (Ann Arbor, US); J. Butler (Atlanta, US)



11:00	A patient on RAAS inhibitors with hyperkalemia. E.A. Jankowska (Wroclaw, PL)	73
11:15	What do the guidelines say? S. Anker (Berlin, DE)	74
11:25	How to implement the guidelines? M. Lainscak (Murska Sobota, SI)	75
11:35	Panel discussion. B. Pitt (Ann Arbor, US); A. Coats (Coventry, GB)	76
11:45	Conclusion and take home message. J. Butler (Atlanta, US)	77

11:00 - 12:00

SYMPOSIUM

MITROPOULOS

### Lifestyle interventions in chronic heart failure

Chairperson(s): A. Rakisheva (Almaty, KZ); M. Fuzat (Durham, US)

11:00	Changing habits: alcohol and tobacco. G.M.C. Rosano (London, GB)	78
11:12	Key issues in diet, weight control. C. Chrysohoou (Athens, GR)	79
11:24	Sodium restriction in heart failure: take it with a grain of salt. A. Flammer (Zurich, CH)	80
11:36	Exercise: what is enough and how much is too much. M. Volterrani (Rome, IT)	81
11:48	How to adapt sex life. C. Vlachopoulos (Athens, GR)	82

## Morning Sessions

11:00 - 12:00 SYMPOSIUM SKALKOTAS

### Managing Heart Failure patients with COPD



Chairperson(s): I. Kanonidis (Thessaloniki, GR); D.N. Tziakas (Alexandroupolis, GR)

11:00	Epidemiology and prognosis A. Hoes (Utrecht,NL)	83
11:15	Managing Heart Failure in COPD K. Naka (Ioannina,GR)	84
11:30	Managing COPD in Heart Failure S. Loukidis (Athens,GR)	85
11:45	The role of NIV J. Masip (Barcelona,ES)	86

11:00 - 12:00 SYMPOSIUM AEGEAN SEA

### Anti-fibrotic therapies in heart failure.

Chairperson(s): R. De Boer (Groningen, NL); G. Condorelli (Rozzano, IT)

#### Basic Science - Translational

11:00	Myocardial fibrosis: new concepts. S. Heymans (Maastricht, NL)	87
11:15	Targeting the cellular origin of cardiac fibrosis. J. Hulot (Paris, FR)	88
11:30	Natural compounds to treat cardiac fibrosis. T. Thum (Hannover, DE)	89
11:45	Clinical value of anti-fibrotic strategies. F. Zannad (Vandoeuvre Les Nancy, FR)	90

11:00 - 12:00 SYMPOSIUM AGORA 1

### E-health and social media in heart failure

Chairperson(s): I. Uchmanowicz (Wroclaw, PL); P. Agathangelou (Nicosia, CY)

11:00	Heart failure matters website: online support for patients. K. Dickstein (Stavanger, NO)	91
11:15	Telemonitoring in heart failure. F. Koehler (Berlin, DE)	92
11:30	Tweet or not tweet? E. Lambrinou (Limassol, CY)	93
11:45	Mobile applications for heart failure management. L. Neubeck (Edinburgh, GB)	94

## Lunchtime Sessions

12:15 - 13:15

SATELLITE SYMPOSIUM

TRIANTI

**Optimizing the heart failure patients' pathway right from the discharge**  
 Sponsored by **SERVIER**

Chairperson(s): P. Seferovic (Belgrade, RS); A. Coats (Coventry, GB)

- To highlight the need for the treatment optimization in particular on the vulnerable phase of the heart failure patients' pathway, at the discharge from the hospital
- To share clinical experience of specialists who have been involved in the optimize heart failure care program

12:15	Introduction - Optimizing the heart failure patients' pathway right from the discharge. P. Seferovic (Belgrade, RS)	95
12:20	The need to optimize treatments throughout the heart failure patients' pathway. A. Coats (Coventry, GB)	96
12:35	What more can we do for patients with heart failure? - Interactive clinical cases. C.I. Saldarriaga (Medellin, CO)	97
12:50	Panel discussion about clinical cases - Optimizing the heart failure patients' pathway right from the discharge. P. Liu (Ottawa, CA); A. Coats (Coventry, GB); P. Seferovic (Belgrade, RS)	98
13:10	Conclusion - Optimizing the heart failure patients' pathway right from the discharge. A. Coats (Coventry, GB)	99

12:15 - 13:15

SATELLITE SYMPOSIUM

LAMBRAKIS

**Reshaping the future of heart failure management - Translating innovations to practice in HFpEF**  
 Organised by **PACE-CME, Physicians' Academy for Cardiovascular Education,**  
 supported with educational grants provided by **Novartis, Novo Nordisk and Pfizer**

Chairperson(s): R. De Boer (Groningen, NL); A. Voors (Groningen, NL)

- Review Heart Failure with preserved Ejection Fraction (HFpEF) as a heterogeneous syndrome and health problem of growing public importance with high morbidity and mortality
- Review the pathophysiological myocardial findings in HFpEF
- Understand the role of diabetes and obesity as modifiable risk factors in HFpEF
- Discuss and review current and future strategies for practical management of comorbidities in HFpEF

12:15	Introduction - Reshaping the future of heart failure management - Translating innovations to practice in HFpEF. R. De Boer (Groningen, NL); D. van Veldhuisen (Groningen, NL)	100
12:20	HFpEF: one name, many diseases, a wide variety? A. Voors (Groningen, NL)	101
12:25	Understanding and managing obesity-related HFpEF. M. Packer (Dallas, US)	102
12:40	Cardiac amyloidosis: an emerging target in HFpEF? P. Van Der Meer (Groningen, NL)	103
12:55	Heart failure & diabetes: what is the goal of treatment? J. McMurray (Glasgow, GB)	104
13:10	Panel discussion - Reshaping the future of heart failure management - Translating innovations to practice in HFpEF. R. De Boer (Groningen, NL); D. van Veldhuisen (Groningen, NL)	105

## Lunchtime Sessions

12:15 - 13:15

SATELLITE SYMPOSIUM

IONIAN SEA

### Overcoming challenges in the treatment of congestion in heart failure Sponsored by Fresenius Medical Care

Chairperson(s): F. Ruschitzka (Zurich, CH); G. Filippatos (Athens, GR)

- Understand the clinical impact of acute heart failure congestion and diuretic resistance;
- Understand gaps in evidence regarding drug therapy for congestion;
- Understand potential of gentle ultrafiltration to facilitate diuretic response;
- Awareness for PURE-Heart Failure (HF) trial

12:15	Welcome & introduction - Overcoming challenges in the treatment of congestion in heart failure. F. Ruschitzka (Zurich, CH)	106
12:20	Unmet needs in acute heart failure, diuretic resistance and congestion. L. Lund (Stockholm, SE)	107
12:35	The challenges of drug therapy for congestion. M. Metra (Brescia, IT)	108
12:50	Gentle ultrafiltration - A new concept in treating patients with heart failure. F. Ruschitzka (Zurich, CH)	109
13:05	The road ahead. G. Filippatos (Athens, GR)	110

12:15 - 13:15

SATELLITE SYMPOSIUM

MITROPOULOS

### Management of hyperkalaemia in patients with heart failure - Overcoming barriers to optimal renin-angiotensin-aldosterone system inhibitor therapy Organised by MedEd Global Solutions & University of Lorraine, supported with an educational grant from Vifor Pharma

Chairperson(s): F. Zannad (Vandoeuvre Les Nancy, FR); J. Butler (Atlanta, US)

- Recognise the importance of hyperkalaemia as a barrier to optimal renin-angiotensin-aldosterone system inhibitor therapy in patients with heart failure.*
- Evaluate the benefits and challenges of hyperkalaemia management in patients with heart failure, resistant hypertension and chronic kidney disease.*
- Discuss how to implement a multidisciplinary approach to improve the outcomes heart failure patients with hyperkalaemia.*

12:15	Welcome and introduction - Management of hyperkalaemia in patients with heart failure - Overcoming barriers to optimal renin-angiotensin-aldosterone system inhibitor therapy. F. Zannad (Vandoeuvre Les Nancy, FR)	111
12:20	Hyperkalaemia in patients with heart failure - Addressing the unmet medical need. M. Lainscak (Murska Sobota, SI)	112
12:35	New evidence on hyperkalaemia management in patients with heart failure, resistant hypertension and chronic kidney disease - The cardiologist's perspective. I. Pina (Detroit, US)	113
12:50	New evidence on hyperkalaemia management in patients with heart failure, resistant hypertension and chronic kidney disease - The nephrologist's perspective. P. Rossignol (Vandoeuvre Les Nancy, FR)	114
13:05	Panel discussion and close - Management of hyperkalaemia in patients with heart failure - Overcoming barriers to optimal renin-angiotensin-aldosterone system inhibitor therapy. J. Butler (Atlanta, US)	115

## Lunchtime Sessions

12:15 - 13:15

SATELLITE SYMPOSIUM

SKALKOTAS

### Solving the puzzle of heart failure, diabetic kidney disease and risk of stroke: let's fit the pieces together

Sponsored by Bayer AG

Chairperson(s): M. Cowie (London, GB)

- Educate on the role of dual pathway inhibition in high risk chronic Coronary Artery Disease (CAD) patients, such as patients with concomitant chronic Heart Failure (HF)
- Consider the impact of Chronic Kidney Disease (CKD) on stroke prevention in patients with Atrial Fibrillation (AF)
- Explore the interaction between heart failure and kidney disease and potential therapeutic options to address this
- Discuss future directions in the digital management of patients with heart failure

12:15	Welcome and introduction - Solving the puzzle of heart failure, diabetic kidney disease and risk of stroke: let's fit the pieces together.	116
	M. Cowie (London, GB)	
12:20	New opportunities in managing your high risk chronic CAD patient.	117
	K. Branch (Seattle, US)	
12:30	Interlinked factors affecting stroke risk in your patients with AF.	118
	H. Bonnemeier (Kiel, DE)	
12:45	Heart failure and kidney disease: completing the puzzle.	119
	C.S. Lam (Singapore, SG)	
12:55	Digital solutions to improve outcomes in heart failure.	120
	M. Cowie (London, GB)	
13:05	Q&A and closing - Solving the puzzle of heart failure, diabetic kidney disease and risk of stroke: let's fit the pieces together.	121
	M. Cowie (London, GB); K. Branch (Seattle, US); H. Bonnemeier (Kiel, DE); C.S. Lam (Singapore, SG)	

12:15 - 13:15

SATELLITE SYMPOSIUM

AEGEAN SEA

### How heart failure biomarkers change clinical practice in the management of acute heart failure

Sponsored by Roche Diagnostics

Chairperson(s): A. Mebazaa (Paris, FR); H.P. Brunner-La Rocca (Maastricht, NL)

- To understand the role of NT-proBNP (NT-proBNP = N-terminal pro Brain Natriuretic Peptide) in acute heart failure diagnosis and treatment
- To review how the differences between BNP and NT-proBNP impact clinical practice
- To discuss on the optimization of post-discharge management after acute heart failure

12:15	Role of NT-proBNP in acute heart failure diagnosis and treatment.	122
	H. Gaggin (Boston, US)	
12:30	Physiologic differences between BNP and NT-proBNP and impact on clinical practice.	123
	D. Logeart (Paris, FR)	
12:45	Optimization of post-discharge management after acute heart failure.	124
	R. Troughton (Christchurch, NZ)	
13:00	Faculty discussion - How heart failure biomarkers change clinical practice in the management of acute heart failure.	125
	A. Mebazaa (Paris, FR); H.P. Brunner-La Rocca (Maastricht, NL); H. Gaggin (Boston, US); D. Logeart (Paris, FR); R. Troughton (Christchurch, NZ)	



## Lunchtime Sessions

12:15 - 13:15

SATELLITE SYMPOSIUM

AGORA 1

**Problems and optimization of volume management in patients with acute heart failure**  
**Sponsored by Reprise Cardiovascular**

Chairperson(s): H. Levin (New York, US)

*Volume management remains a challenge and concern in the treatment of acute decompensated heart failure. Three leading experts in cardiology will review current treatments for managing this and discuss a proposed new approach to increase safely urine output in acute decompensated heart failure patients.*

12:15	Introduction - Problems and optimization of volume management in patients with acute heart failure. H. Levin (New York, US)	126
12:20	Current pharmacological and device-based therapies for fluid overload in Acute Decompensated Heart Failure (ADHF). H. Levin (New York, US)	127
12:35	Reprise-guided diuretic therapy: a novel physiological approach to volume management. J. Testani (New Haven, US)	128
12:50	Current clinical experience with reprove-guided diuretic therapy in acute heart failure patients, and its potential for the future. P. Ponikowski (Wroclaw, PL)	129
13:05	Moderated discussion - Problems and optimization of volume management in patients with acute heart failure. H. Levin (New York, US)	130

13:30 - 14:30

SATELLITE SYMPOSIUM

TRIANTI

**Cardiac amyloidosis in the spotlight: how to treat today?**  
**Organised by Medscape Education, supported with an educational grant from Alnylam Pharmaceuticals**

Chairperson(s): M. Slama (Paris, FR)

*Increased knowledge:*

- Regarding new and emerging clinical data on treatment of hereditary Transthyretin-Related Amyloidosis (hATTR)

*Greater competence related to:*

- Use of appropriate testing modalities to improve early diagnosis of amyloidosis  
 - Tailoring therapy for patients with cardiac amyloidosis, including hATTR

13:30	Welcome and introduction - Cardiac amyloidosis in the spotlight: how to treat today? M. Slama (Paris, FR)	131
13:35	Cardiac amyloidosis as a medical emergency: improving timely diagnosis. M. Slama (Paris, FR)	132
13:50	Advances in treatment of amyloidosis: hATTR in the spotlight. A. Kristen (Darmstadt, DE)	133
14:05	Treating cardiac amyloidosis today: cases and considerations. T. Damy (Creteil, FR)	134
14:20	Panel discussion and Q&A - Cardiac amyloidosis in the spotlight: how to treat today? M. Slama (Paris, FR); A. Kristen (Darmstadt, DE); T. Damy (Creteil, FR)	135

## Lunchtime Sessions

13:30 - 14:30

SATELLITE SYMPOSIUM

LAMBRAKIS

### Heart Failure, diabetes & SGLT2 inhibition: time to change practice?

Organised by PACE-CME, Physicians' Academy for Cardiovascular Education, supported with an educational grant from Boehringer Ingelheim

Chairperson(s): A. Voors (Groningen, NL); M. Cowie (London, GB)

- To explore mechanisms and common pathways underlying the development of cardiovascular disease and heart failure and the particular risk of patients with diabetes
- To discuss the role of anti-diabetic therapy, in particular the use of Sodium/Glucose Cotransporter 2 (SGLT2)inhibitors, in a risk-based intervention strategy that targets glucose control and cardiovascular risk factors
- To discuss current and future strategies for practical management of heart failure and interventions to prevent cardiovascular events

13:30	The essentials for diabetes and heart failure. M. Cowie (London, GB)	136
13:40	Why could patients with heart failure and T2DM benefit from SGLT2 inhibition? S. Verma (Toronto, CA)	137
13:55	Real world practices and outcomes in the management of heart failure patients with T2DM. C.S. Lam (Singapore, SG)	138
14:10	The future of SGLT2 inhibition in heart failure: managing patients without T2DM? A. Voors (Groningen, NL)	139
14:25	Panel discussion - Heart Failure, diabetes & SGLT2 inhibition: time to change practice? M. Cowie (London, GB)	140

13:30 - 14:30

SATELLITE SYMPOSIUM

IONIAN SEA

### The hyperkalaemia challenge in heart failure: what is the role of novel agents?

Sponsored by AstraZeneca

Chairperson(s): A. Coats (Coventry, GB)

After this Satellite Symposium, delegates will understand that:

1. Hyperkalaemia is prevalent in patients with heart failure and results in poor outcomes
2. Hyperkalaemia is often a barrier to guideline-recommended renin-angiotensin-aldosterone system inhibitor therapy, leading to submaximal use of these life-saving medications and increased mortality
3. Novel agents with rapid onset of action, high selectivity for potassium and improved tolerability versus older agents have the potential to change the current management of heart failure by allowing patients to derive full benefits of their renin-angiotensin-aldosterone system inhibitor therapy

13:30	Chair's introduction - The hyperkalaemia challenge in heart failure: what is the role of novel agents? A. Coats (Coventry, GB)	141
13:35	What is the clinical impact of hyperkalaemia? C. Linde (Stockholm, SE)	142
13:45	Hyperkalaemia: a barrier to optimal management of patients with heart failure? A. Coats (Coventry, GB)	143
13:55	Solving the K <sup>+</sup> challenge in heart failure: are novel K <sup>+</sup> binders the answer? M. Volterrani (Rome, IT)	144
14:20	Clinical experience with novel K <sup>+</sup> binders: what are the opportunities and challenges? A. Coats (Coventry, GB); C. Linde (Stockholm, SE); M. Volterrani (Rome, IT)	145

## Lunchtime Sessions

13:30 - 14:30

SATELLITE SYMPOSIUM

MITROPOULOS

### Current challenges and innovations in the treatment of mitral and tricuspid regurgitation Organised by Charité Berlin, supported with an educational grant from Edwards

Chairperson(s): S. Anker (Berlin, DE); K. Spargias (Athens, GR)

- Understand the evolution of mitral regurgitation treatment options and latest innovations
- Learn how to use latest transcatheter techniques in patients with functional or degenerative mitral regurgitation
- Understand the complexity of diagnosis and treatment of tricuspid regurgitation
- Understand the need for new treatment options and the advantages and benefits of recent innovations

13:30	Introduction - Current challenges and innovations in the treatment of mitral and tricuspid regurgitation. S. Anker (Berlin, DE)	146
13:32	Patient selection in mitral valve repair: impact of latest innovations. G. Hasenfuss (Goettingen, DE)	147
13:44	Treating functional mitral regurgitation: case presentation. M. Chrissoheris (Athens, GR)	148
13:54	From mitral regurgitation to tricuspid valve disease: current challenges. R.S. Von Bardeleben (Mainz, DE)	149
14:06	Managing tricuspid valve disease: an innovative therapeutic option. F. Maisano (Zurich, CH)	150
14:18	Panel discussion and conclusion - Current challenges and innovations in the treatment of mitral and tricuspid regurgitation. K. Spargias (Athens, GR); G. Hasenfuss (Goettingen, DE); S. Anker (Berlin, DE); R.S. Von Bardeleben (Mainz, DE); M. Chrissoheris (Athens, GR); F. Maisano (Zurich, CH)	151

13:30 - 14:30

SATELLITE SYMPOSIUM

SKALKOTAS

### Functional mitral regurgitation in heart failure: time to treat! Sponsored by Abbott

Chairperson(s): G. Filippatos (Athens, GR); J. Bax (Leiden, NL)

- Raise awareness on the impact of mitral regurgitation in heart failure
- Get up to date on the recent evidence (COAPT & MitraFR) supporting the treatment of functional mitral regurgitation
- Identify patient to benefit from transcatheter mitral valve repair intervention

13:30	Introduction - Functional mitral regurgitation in heart failure: time to treat! G. Filippatos (Athens, GR)	152
13:32	Why should we treat functional mitral regurgitation in heart failure. M. Senni (Bergamo, IT)	153
13:45	Understanding the significance of mitral regurgitation and when drugs are not enough. J. Bax (Leiden, NL)	154
14:05	What COAPT & MitraFR tell us. W. Abraham (Columbus, US)	155
14:25	Conclusion & take-home messages - Functional mitral regurgitation in heart failure: time to treat! J. Bax (Leiden, NL)	156

## Afternoon Sessions

14:45 - 16:15

CLINICAL CASES

AGORA 2

### Clinical Case Award - Unusual heart failure presentations: teach the teachers



AWARD SESSION

Chairperson(s): R. Starling (Cleveland, US); E. Iliodromitis (Agia Paraskevi Athens, GR)  
 Judge(s): C. Tschoepe (Berlin, DE); L. Cooper (Jacksonville, US); K. Naka (Ioannina, GR)

15:00	An unusual case of giant cell myocarditis managed with immunosuppression and left ventricular assist device J. Fallon, A. Parker, S.P. Dunn, J.L.W. Kennedy (Charlottesville, US)	157
15:15	Sudden cardiac death: a case of fulminant myocarditis E. Meekers, R. Achten, R. Cartuyvels, P. Koopman, E. Benit, P.J. Timmermans (Hasselt, BE)	158
15:30	Constrictive pericarditis secondary to prior Mycobacterium tuberculosis infection: the use of multimodality imaging to guide pericardectomy A. Salem, C. Nunn, A. Kardos (Milton Keynes, GB)	159
15:45	Double trouble: when a thrombus save your life L. Moderato, S. Binno, M.F. Piepoli, R. Giacalone, B. Borrello, G. Pastorini, G.Q. Villani (Parma and Piacenza, IT)	160
16:00	The price of emulating Hercules: mephentermine associated cardiomyopathy (MAC) A.K. Singal, S. Deepti, G. Sharma, S.S. Kothari (New Delhi, IN)	161

14:45 - 16:15

DEBATE SESSION

TRIANTI

### The Grand Debate 1: Advances in medical and interventional treatment of heart failure



MOBILE APP SESSION

Chairperson(s): B. Bozkurt (Houston, US); A. Coats (Coventry, GB)

14:45	Positioning of the topic.	162
14:49	TAVI should be used in low risk patients with symptomatic severe aortic stenosis - Pro A. Colombo (Milan, IT)	163
15:04	TAVI should be used in low risk patients with symptomatic severe aortic stenosis - Con.	164
15:19	Rebuttal. G. Stone (New York, US); A. Colombo (Milan, IT)	165
15:25	Conclusion and take-home message. A. Coats (Coventry, GB)	166
15:30	Positioning of the topic. B. Bozkurt (Houston, US)	167
15:34	Therapy with Sacubitril-Valsartan should begin in hospital-Pro E. Velazquez (New Haven, US)	168
15:49	Therapy with Sacubitril-Valsartan should begin in hospital - Con	169
16:04	Rebuttal. E. Velazquez (New Haven, US)	170
16:10	Conclusion and take-home message. B. Bozkurt (Houston, US)	171

## Afternoon Sessions

14:45 - 16:15

CLINICAL CASES

LAMBRAKIS

### Advances in therapeutic interventions in acute heart failure



MOBILE APP  
SESSION

Chairperson(s): O. Miro (Barcelona, ES); J. Butler (Atlanta, US)

World Congress on Acute Heart Failure

14:45	Mechanical ventilation/respiratory support. J. Masip (Barcelona, ES)	172
15:00	Fluid removal therapies. L. Lund (Stockholm, SE)	173
15:15	Vasodilators: from guidelines to practice. M. Metra (Brescia, IT)	174
15:30	Inotropes: risk and benefits. M. Konstam (Boston, US)	175
15:45	Discussion.	176

14:45 - 16:15

SYMPOSIUM

IONIAN SEA

### Exercise in heart failure: challenges and opportunities

Chairperson(s): C.O'Connor (Durham, US); A. Karavidas (Athens, GR)

14:45	Cardiac rehabilitation for patients with a ventricular assist device. S. Adamopoulos (Athens, GR)	177
15:07	Training frail patients with heart failure: mission impossible. M.F. Piepoli (Piacenza, IT)	178
15:30	Tracking and tailoring exercise at home. E. Piotrowicz (Warsaw, PL)	179
15:52	Gaps in implementation and in knowledge. M. Volterrani (Rome, IT)	180

14:45 - 16:15

SYMPOSIUM

MITROPOULOS

### Multimodality imaging in heart failure

Chairperson(s): F.J. Pinto (Lisbon, PT); P. Nihoyannopoulos (London, GB)

World Congress on Acute Heart Failure

14:45	Echocardiographic assessment: emerging concepts J. Bax (Leiden, NL)	181
15:07	CMR in heart failure: detecting inflammation and fibrosis. M. Emdin (Pisa, IT)	182
15:30	Uncovering the aetiology of heart failure: cardiac CT. S. Achenbach (Erlangen, DE)	183
15:52	Nuclear imaging in the evaluation of ventricular dysfunction. C. Anagnostopoulos (Athens, GR)	184

## Afternoon Sessions

14:45 - 16:15

SYMPOSIUM

SKALKOTAS

### How to integrate new technologies in the heart failure clinic



LOCAL TRACK

Chairperson(s): P. Vardas (Athens, GR); A. Sideris (Halandri, GR)

14:45	Big Health Data and artificial intelligence in heart failure A. Maisel (Solana Beach, US)	185
15:07	New devices in heart failure F. Schoenrath (Berlin, DE)	186
15:30	New Imaging techniques in heart failure A. Kitsiou (Athens, GR)	187
15:52	Medications profile post hospitalization for acute heart failure A. Kalogeropoulos (Stony Brook, US)	188

14:45 - 16:15

SYMPOSIUM

AEGEAN SEA

### Translating pathophysiology to the clinic in Takotsubo syndrome

Chairperson(s): A. Lyon (London, GB); C. Templin (Zurich, CH)

Basic Science - Translational

14:45	Catecholaminergic stunning during the acute phase - Preclinical and clinical evidence. M. Ciccarelli (Baronissi, IT)	189
15:07	Acute changes in myocardial metabolism. E. Omerovic (Gothenburg, SE)	190
15:30	Electrical instability and arrhythmias. O. Morel (Strasbourg, FR)	191
15:52	Long term changes in the hearts of Takotsubo syndrome survivors. D. Dawson (Aberdeen, GB)	192

14:45 - 16:15

SYMPOSIUM

AGORA 1

### Myocarditis: from bench to bedside

Chairperson(s): Z. Papp (Debrecen, HU); C. Maack (Wuerzburg, DE)

14:45	Pathophysiology. S. Heymans (Maastricht, NL)	193
15:07	Clinical presentation. A. Ristic (Belgrade, RS)	194
15:30	Advances in diagnostic strategies: CMR, cardiac CT or biopsy. S. Mavrogeni (Athens, GR)	195
15:52	Management. L. Cooper (Jacksonville, US)	196

## Afternoon Sessions

16:30 - 17:30

RAPID FIRE ABSTRACTS

AGORA 2

### Rapid Fire 3 - Acute heart failure

Chairperson(s): S. Price (London, GB); M. Abdelhamid (Cairo, EG)

- |       |  |     |
|-------|--|-----|
| 16:30 | The discriminative power and optimal diagnostic thresholds of NT-proBNP in patients admitted with acute heart failure-related signs and symptoms: a prospective observational study  | 197 |
|       | P. Simitzis, J. Webb, J. Draper, S. Piper, T. Jackson, S. Claridge, T.A. Mcdonagh, S. Kapetanakis, R. Razavi, G. Carr-White (London, GB)   |     |
| 16:36 | Compeering of predictive accuracy for 30, 90 and 365-day Heart Failure readmission assessed by impedance technique and NT-proBNP. Results of IMPEDANCE-HF extended trial   | 198 |
|       | M. Kleiner Shochat, D. Kapustin, M. Fudim, M. Kazatsker, Y. Levy, A. Levy, I. Kleiner, J.M. Weinstein, G. Panjrath, A. Roguin, S. Meisel (Hadera and Beer Sheva, IL; Toronto, CA; Durham and Washington, US)   |     |
| 16:42 | Improving diuresis and dropsy with elamipretide in advanced heart failure (IDDEA-HF); a multi-centre, double-blind, placebo-controlled trial   | 199 |
|       | J.G.F. Cleland, J. Carr, P. Pellicori, B. Merkely, A. Voors, M. Kruk, T. Kostic, N. Pontaga, D. Raev, L. Almenar, M. Robertson, I. Ford, J.J. McMurray, B. Pitt (Glasgow, GB; Newton and Ann Arbor, US; Budapest, HU; Groningen, NL; Warsaw, PL; Nis, RS; Daugavpils, LV; Sofia, BG; Valencia, ES) |     |
| 16:48 | BIS equation of glomerular filtration rate in the prediction of hospitalization and mortality in older patients with heart failure   | 200 |
|       | M.I. Pires, H. Antunes, M.L. Goncalves, J.M. Santos, J.G. Goncalves Pereira, J. Correia, J. Costa Cabral, I. Almeida (Viseu, PT)   |     |
| 16:54 | Incident hyperkalemia and RAAS-inhibition during an acute heart failure hospitalization  | 201 |
|       | J.C. Beusekamp, J. Tromp, A.A. Voors, P. Van Der Meer (Groningen, NL)  |     |
| 17:00 | Concurrent Initiation of Intra-aortic Balloon Pumping with Extracorporeal Membrane Oxygenation Reduced In-hospital Mortality in Postcardiotomy Cardiogenic Shock   | 202 |
|       | K. Chen, H.W. Tang, J.F. Hou, S.S. Hu (Beijing, CN)  |     |
| 17:06 | Cardiac autonomic nerves stimulation improves hemodynamics and clinical status in advanced heart failure patients  | 203 |
|       | M.P.C. Cuchiara, C.M. Marin Y Kall, J.B. Boehmer, M.C. Cowie, A.M. Mebazaa, T.D. Diaz (Durham, Miami and Hershey, US; London, GB; Paris, FR; Panama City, PA)  |     |
| 17:12 | Lung ultrasound in acute heart failure: prevalence of pulmonary congestion and associated short- and long-term outcomes  | 204 |
|       | E. Platz, R. Campbell, B. Claggett, E. Lewis, J. Groarke, K. Docherty, M. Lee, A. Merz, M. Silverman, V. Swamy, M. Propplesch, J. Rivero, S. Solomon, J. McMurray (Boston, US; Glasgow, GB)  |     |
| 17:18 | The value of discharge bio-ADM as a marker of residual congestion, discharge loop diuretic doses and clinical outcomes in patients with acute heart failure  | 205 |
|       | P. Pandhi, J.E. Emmens, J. Struck, J.M. Ter Maaten, A.A. Voors (Groningen, NL; Henningsdorf, DE)   |     |
| 17:24 | Trends in outcomes in patients with acute ischemic heart failure: a report from Swedish Angiography and Angioplasty Registry   | 206 |
|       | B. Redfors, S. Volz, O. Angeras, D. Ioanes, J. Odenstedt, S. Koul, I. Haraldsson, C. Ljungman, C. Dworeck, O. Frobert, S. James, A. Ulvenstam, T. Jernberg, D. Erlinge, E. Omerovic (Gothenburg, Lund, Uppsala, Ostersund and Stockholm, SE)   |     |

## Afternoon Sessions

16:30 - 17:30

SYMPOSIUM

LAMBRAKIS

### Peripartum cardiomyopathy: new clinical insights

Chairperson(s): A. Frogoudaki (Athens, GR); C.E. Angermann (Wurzburg, DE)

World Congress on Acute Heart Failure

16:30	Lessons learned from registries. K. Sliwa-Hahnle (Cape Town, ZA)	207
16:45	Pathophysiology and molecular mechanisms. B. Bozkurt (Houston, US)	208
17:00	Clinical phenotype and outcomes. M. Petrie (Glasgow, GB)	209
17:15	Subsequent pregnancies and treatment options. J. Bauersachs (Hannover, DE)	210

16:30 - 17:30

GUIDELINES IN DAILY PRACTICE

IONIAN SEA

### Guidelines in Daily Practice II: heart failure and hypertension

Chairperson(s): M.F. Piepoli (Piacenza, IT); Y. Cavusoglu (Eskisehir, TR)



16:30	A case of a patient with heart failure and hypertension. M. Bonios (Athens, GR)	211
16:45	What do the guidelines say? T. McDonagh (London, GB)	212
16:55	How to implement the guidelines. C. Yancy (Chicago, US)	213
17:05	Panel Discussion. C. Grassos (Athens, GR)	214
17:20	Conclusion and take home message. M.F. Piepoli (Piacenza, IT)	215

16:30 - 17:30

SYMPOSIUM

MITROPOULOS

### HFpEF: current diagnosis and management

Chairperson(s): R. De Boer (Groningen, NL); W. Paulus (Amsterdam, NL)

16:30	Definition and diagnosis. The new HFA algorithm. B. Pieske (Berlin, DE)	216
16:42	Co-morbidities in HFpEF. F. Triposkiadis (Larissa, GR)	217
16:54	Pathophysiology. M. Senni (Bergamo, IT)	218
17:06	Treatment challenges in HFpEF. S. Solomon (Boston, US)	219
17:18	Ongoing clinical trials in HFPEF. J. Butler (Atlanta, US)	220



## Afternoon Sessions

16:30 - 17:30

SYMPOSIUM

SKALKOTAS

### How to manage psychosocial and CNS disorders in Heart Failure



Chairperson(s): G.K. Tsigoulis (Athens, GR); T. Damy (Creteil, FR)

16:30	Depression A. Fountoulaki (Gerakas, GR)	221
16:42	Cognitive dysfunction A. Xanthopoulos (Athens, GR)	222
16:54	Non adherence E. Lambrinou (Limassol, CY)	223
17:06	Exercise intolerance/Fatigue C. Davos (Athens, GR)	224
17:18	Stroke G. Giannopoulos (Marousi, GR)	225

16:30 - 17:30

SYMPOSIUM

AEGEAN SEA

### Diabetes and heart failure

Chairperson(s): P. Seferovic (Belgrade, RS); C. Maack (Wuerzburg, DE)

**Basic Science - Translational**

16:30	Sugar is good for the heart! J. Backs (Heidelberg, DE)	226
16:45	Diabetic mouse model to study diabetic cardiomyopathy. C. Maack (Wuerzburg, DE)	227
17:00	SGLT-2 inhibitors and cardiac metabolism. F. Cosentino (Stockholm, SE)	228
17:15	Treating diabetes saves the heart. G.M.C. Rosano (London, GB)	229

## Afternoon Sessions

17:45 - 19:30

SPECIAL EVENT

TRIANTI

### Inaugural Session



Chairpersons: P. Seferovic (RS), A. Coats (UK), G. Filippatos (GR)

17:45 - 17:50

Welcome from the President of the HFA

P. Seferovic (RS)

17:50 - 17:55

Welcome to Heart Failure 2019 & World Congress on Acute Heart Failure

G. Filippatos (GR)

17:55 - 18:00

Welcome from the President of the ESC

B. Casadei (UK)

18:05 - 18:10

The HFA Philip Poole Wilson lecture Introduction of M. Jessup

Andrew Coats (UK)

18:10 - 18:25

HFA Philip Poole Wilson lecture: Heart Failure Guidelines: what is the alpha and what is the omega?

M. Jessup (USA)

18.25 - 18.30

The HFA Eugene Braunwald lecture Introduction of M. Yacoub

To be announced

18.30 - 18.45

The HFA Eugene Braunwald lecture: lecture title to be announced

M. Yacoub (UK)

18.50 - 19.00

Heart Failure Specialists of Tomorrow Awards

E. Jankowska (PL)

19.00 - 19.05

Opening Address

P. Seferovic (RS)

# Heart Failure 2019

## Saturday Posters

SATURDAY



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## Posters Sessions

08:30 - 17:30

POSTER SESSION 1

POSTER AREA

### ATRIAL FIBRILLATION

- The relationship between epicardial adipose tissue and atrial fibrillation** P232  
L.-L. Truong, F. Erthal, H. El Mais, Y. Yam, D. Dey, B.J. Chow (Ottawa, CA; Los Angeles, US)
- Decreased left atrial reservoir function can predict new onset atrial fibrillation in patients with acute heart failure** P233  
J.H. Park, J.J. Park, J.H. Lee, J.B. Park, G.Y. Cho (Daejeon, Seongnam, Cheongju and Seoul, KR)
- Impact of obesity and age on left atrial function in patients with paroxysmal atrial fibrillation undergoing catheter ablation** P234  
A. Katbeh, T. De Potter, P. Geelen, G. Di Gioia, E. Stefanidis, Z. Balogh, K. Iliodromitis, E. Barbato, M. Vanderheyden, G. Van Camp, M. Penicka (Aalst, BE)
- Outcomes, predictors and treatment of intraatrial reentrant tachycardias in adult with congenital heart disease** P235  
E. Cambroner Cortinas, P. Moratalla-Haro, A.N.A. Gonzalez-Garcia, P. Avila-Alonso, M. Bret-Zurita, J. Ruiz-Cantador, N. Rivero-Jimenez, R. Peinado-Peinado, J.M. Oliver-Ruiz (London, GB; Albacete and Madrid, ES)
- Sex differences in the effects of class III antiarrhythmic drugs on left ventriculoatrial remodeling in atrial fibrillation patients with diastolic dysfunction** P236  
E. Kokhan, G. Kiyakbaev, A. Shavarov, Z.H. Kobalava (Moscow, RU)
- Impact of gender on the relation between heart rate and left atrial remodeling in patients with recurrent atrial fibrillation and preserved ejection fraction** P237  
E. Kokhan, G. Kiyakbaev, A. Shavarov, Z.H. Kobalava (Moscow, RU)
- Immediate recovery of atrial mechanical function after electrical cardioversion in patients with persistent atrial fibrillation is predictive of maintenance of sinus rhythm** P238  
D.G. Park, W.-W. Seo, S.-E. Kim, J.-H. Lee, K.-R. Han, D.-J. Oh (Seoul, KR)
- Left atrial enlargement predicts 1-year mortality in patients with atrial fibrillation and heart failure** P239  
A. Samaras, G. Fotos, G. Dividis, D. Vasdeki, E. Paschou, I. Goulas, A. Kartas, E. Forozidou, V. Tsoukra, H. Karvounis, A. Tzikas, G. Giannakoulas (Thessaloniki, GR)
- Sinus rhythm restore in patients with atrial fibrillation and heart failure** P240  
G. Dussekeyeva, R.R. Rekvava, A.K. Abdymomunov (Almaty, KZ)
- Low albumin level is one of the strongest predictors for cardiovascular mortality in reduced ejection fraction heart failure patients with atrial fibrillation in both genders** P241  
G. Kozdag, D.U.K. Karauzum, I. Karauzum, T. Sahin, J. Wiley, C. Sanina, A. Vural, U. Celikyurt, A. Agacdiken Agir (Kocaeli and Istanbul, TR; New York, US)

### DEVICE THERAPY

- Low heart rate at follow up predicts improvement of ejection fraction in a large-volume cohort of women with wearable cardioverter defibrillator** P242  
L. Schrutka, J.W. Erath, V. Kutiyfa, B. Assmus, A. Burch, A.M. Russo, D. Bonderman (Vienna, AT; Frankfurt am Main and Giessen, DE; Rochester, Greenville and Camden, US)
- Epicardial adipose tissue echocardiographic thickness predicts arrhythmic outcome in heart failure patients.** P243  
L. Ferrante, L. Petraglia, F.V. Grieco, M. Conte, C. Napolitano, M. Russo, L. Gioia, L. Visaggi, P. Campana, D. Bruzzese, V. Parisi (Naples, IT)
- The prevalence of anxiety among patients with implantable cardioverter-defibrillator, does it change with decades of implementations?** P244  
P. Zegarow, M. Manczak, R. Olszewski (Warsaw, PL)
- Single lead implantable cardioverter-defibrillator lead system with a atrial sensing dipole (Dx-AICD technology): 1-year follow-up** P245  
P. Sangoi, R. Deep Chandh, A. Mullasari, U. Pandurangi (Chennai, IN)

## Posters Sessions

- Appropriate and inappropriate ICD therapy in patients with ischemic and non-ischemic cardiomyopathies according remote monitoring data.** P246  
 D. Losik, V. Shabanov, I. Peregudov, R. Zhizhov, A. Filippenko, I. Mikheenko, E. Fisher, E. Morzhanaev, N. Elemesov, D. Elesin, E. Pokushalov, A. Romanov (Novosibirsk, RU)
- Frequency and patterns of implantable cardiac defibrillator therapies in patients with left ventricular assist devices** P247  
 A. Gkouziouta, D. Miliopoulos, A. Kostopoulou, M. Spartalis, M. Bonios, T.H. Livanis, S. Adamopoulos, N. Kogerakis (Athens, GR)
- Low guideline adherence of physicians for primary prevention of sudden cardiac death with implantable cardioverter defibrillator implantation despite prenotification system** P248  
 I.K. Moon, E.K. Choi, E.J. Lee, M.J. Cha, S.I. Oh (Seoul, KR)
- The follow-up of patients with chronic heart failure and implantable cardioverter defibrillator in primary prevention** P249  
 M. Kerekanic, S. Misikova, E. Komanova, J. Sedlak, J. Farkas, B. Stancak (Kosice, SK)
- Late gadolinium enhancement mass to predict shocks of defibrillators implanted for primary prevention in patients with non-ischaemic heart failure** P250  
 A. Aimo, A. Barison, A. Barison, A. Barison, V. Castiglione, V. Castiglione, V. Castiglione, G. Mirizzi, G. Mirizzi, G. Mirizzi, A. Ripoli, A. Ripoli, A. Ripoli, G.D. Aquaro, G.D. Aquaro, G.D. Aquaro, M. Piacenti, M. Piacenti, M. Piacenti, C. Passino, C. Passino, A. Giannoni, C. Passino, M. Emdin, M. Emdin, M. Emdin (Pisa, IT)
- Etiology of dilated cardiomyopathy as the leading predictor of efficiency of implantable cardioverter-defibrillators in prevention of sudden cardiac death** P251  
 E.A. Solovyova, O.V. Blagova, V.P. Sedov, E.A. Kogan, E.V. Zaklyazminskaya, A.V. Nedostup (Moscow, RU)
- Are women being offered an ICD compare to men ?** P252  
 S. Lepage, C. Ahnadi, C. Allard, S. Pigeon (Sherbrooke, CA)

### CHRONIC HEART FAILURE - PATHOPHYSIOLOGY AND MECHANISMS

- Relationship between functional capacity, haemodynamic response to exercise and quality of life in chronic heart failure** P253  
 S. Fatrin, N.C. Okwose, K. Bailey, L. Velicki, V. Ninkovic, P.M. Seferovic, G.A. Macgowan, D.G. Jakovljevic (Newcastle upon Tyne, GB; Novi Sad, Vrnjacka Banja and Belgrade, RS)
- Rationale and design of RHYTHM-HF: a novel observational study to investigate the role of arrhythmias and cause of death in heart failure utilising injectable cardiac monitors and autopsy examinations** P254  
 S.A.S. Beggs, S. Wright, C. Ritchie Allan, G. Roditi, N.N. Lang, C.E. Jackson, J.J.V. McMurray, M.C. Petrie, R.S. Gardner (Glasgow, GB)
- Heterogeneity of cardiac macrophages in patients with of ischemic ADHF** P255  
 E.V. Kruchinkina, Y.V. Rogovskaya, R.E. Batalov, V.V. Ryabov (Tomsk, RU)
- Platelet aggregation in hyperbaric oxygenation in patients with chronic heart failure** P256  
 A. Vorobev, E.N. Altylnbaeva, M.N. Goryachaya, V.I. Ruzov (Ulyanovsk, RU)
- Sex-specific biomarker profiles underlying Heart Failure development: a sub-study of the HOMAGE (Heart OMics in AGEing) consortium** P257  
 A.G. Raafs, J.A.J. Verdonshot, J.P. Ferreira, P. Wang, T. Collier, J.A. Staessen, F. Zannad, M.R. Hazebroek, S.R.B. Heymans (Maastricht, NL; Nancy, FR; London, GB; Leuven, BE)
- Functional mitral regurgitation in pts with HFrEF, HFmrEF and HFpEF: the good, the bad and the ugly?** P258  
 T. Castelein, M. Beles, S. Verstreken, M. Goethals, W. Heggermont, R. Dierckx, J. Bartunek, M. Vanderheyden (Aalst, BE)
- Characterizing heart failure with preserved and reduced ejection fraction: an integrated clinical, imaging and plasma biomarker approach** P259  
 P. Kanagala, J.R. Arnold, J.N. Khan, A. Singh, G.S. Gulsin, D.C.S. Chan, A.S.H. Cheng, J. Yang, Z. Li, P. Gupta, I.B. Squire, G.P. Mccann, L.L. Ng (Liverpool, Leicester and Kettering, GB; Princeton, US)
- Effects of sympathetic modulation by renal denervation in patients with heart failure and preserved ejection fraction** P260  
 K.-P. Kresoja, K.-P. Rommel, K. Fengler, M. Von Roeder, C. Besler, S. Desch, H. Thiele, P. Lurz (Leipzig, DE)

## Posters Sessions

- Evaluation of left intraventricular synchrony in asymptomatic left bundle branch block patients by non-invasive parameters obtained from radionuclide ventriculography** P261  
A. Pastor Fuentes, R. Mata Caballero, J. Perea, A. Nunez Angulo, B. Alcon, M. Alcocer (Getafe (Madrid), ES)
- The impact of regulatory T lymphocytes on long-term survival in patients with ischemic heart failure with reduced ejection fraction** P262  
P. Sulzgruber, L. Koller, S. Blum, M. Huelsmann, J. Wojta, A. Niessner (Vienna, AT)
- Prognostic role of ST2 in heart failure patients with carbohydrate metabolism disorders** P263  
K. Kopeva, E.V. Grakova, A.T. Teplyakov, M.V. Soldatenko, O.N. Ogurkova, A.A. Garganeeva (Tomsk, RU)
- Body composition is associated with constructive but not wasted myocardial work in subjects free of heart failure Results from the STAAB cohort study** P264  
C. Morbach, F. Sahiti, T. Tiffe, V. Cejka, M. Breunig, F. Eichner, G. Gelbrich, P.U. Heuschmann, S. Stoerk (Wuerzburg and Wurzburg, DE)
- Impact of renal function and serum electrolytes on myocardial work - Results from the STAAB cohort study** P265  
C. Morbach, F. Sahiti, T. Tiffe, V. Cejka, M. Breunig, F. Eichner, G. Gelbrich, P.U. Heuschmann, S. Stoerk (Wuerzburg and Wurzburg, DE)
- Urinary sodium profiling in chronic heart failure to detect the development of acute decompensated heart failure.** P266  
P. Martens, M. Dupont, K. Damman, J. Penders, J. Testani, W.H.W. Tang, W. Mullens (Genk, BE; Groningen, NL; New Haven and Cleveland, US)
- Arterial stiffness in heart failure patients after an acute episode of acute decompensation : preliminary results** P267  
M. Feola, M. Testa, C. Ferreri, G.L. Rosso, A. Rossi, G. Ruocco (Mondovì, Cuneo, Italy and Turin, IT)
- Left ventricular geometry impact on myocardial work, Results from the STAAB cohort study** P268  
F. Sahiti, C. Morbach, T. Tiffe, V. Cejka, M. Breunig, F. Eichner, G. Gelbrich, P.U. Heuschmann, S. Stoerk (Würzburg and Wurzburg, DE)
- Cardiovascular risk factors are associated with constructive but not with wasted myocardial work, Insights from the STAAB cohort study** P269  
F. Sahiti, C. Morbach, T. Tiffe, V. Cejka, M. Breunig, F. Eichner, G. Gelbrich, P.U. Heuschmann, S. Stoerk (Würzburg and Wurzburg, DE)
- Sleep disordered breathing, neurocognitive impairment and diastolic function in acute heart failure patients with preserved ejection fraction** P270  
E. D'elia, C.A. Stamerra, M. Gori, V. Duino, G. Balestrieri, B. Pierangelo, A.L. Vecchi, A. Iacovoni, A. Ghirardi, A. Gavazzi, C. Ferri, M. Senni (Bergamo and L'Aquila, IT)
- Atrial fibrillation and heart failure with non reduced ejection fraction: can biomarkers make the difference?** P271  
A. Merino Merino, J.A. Perez Rivera, R. Saez De La Maleta Ubeda, R. Salgado Aranda, V. Pascual Tejerina, J. Martin Gonzalez, J. Garcia Fernandez, D. Al Kassam Martinez (Burgos, ES)
- Matrix metalloproteinase-2,9 activity, galectin-3 and systemic inflammation in patients with postinfarction heart failure with preserved ejection fraction** P272  
O. Sirenko, O. Kuryata, A. Zabida (Dnipropetrovsk, UA)
- Increased inflammatory state can be a predictive marker for acute kidney injury in acute decompensated heart failure patients with preserved ejection fraction** P273  
U. Kocabas, H. Altay, F. Ozkalayci, E. Kulah, O. Yildirimturk, S. Pehlivanoglu (Istanbul, TR)
- Therapeutic approaches via blood transfusion in anemic patients with diastolic heart failure. Role of bone morphogenetic protein 11 from young (<30age) blood donors in diastolic dysfunction reverse.** P274  
I. Kanellos, G. Kaiafa, M. Petridou, A. Antoniou, A. Vomvas, G. Rampidis, S. Daios, K. Diplaris, S. Papaioannou, A. Gogakos, S. Lampropoulos, G. Krassas, S. Handanis, H. Karvounis, C. Savopoulos (Thessaloniki, Serres, thessaloniki, Athens and Kozani, GR)
- Effect of long-term remote ischemic conditioning on inflammatory and cardiac remodeling parameters in patients with chronic ischemic heart failure** P275  
K. Pryds, M.R. Schmidt, M. Bjerre, S. Thiel, J. Refsgaard, H.E. Botker, R.D. Ostgard, R.R. Nielsen (Aarhus, Copenhagen, Viborg and Silkeborg, DK)

## Posters Sessions

- Usefulness of comprehensive cardiac assessments for early detection of subclinical chemotherapy-related cardiac dysfunction in breast cancer patients -A prospective pilot study-** P276  
 Y. Terui, K. Sugimura, H. Ota, H. Tada, H. Sato, K. Nochioka, S. Tatebe, S. Miyata, Y. Sakata, T. Ishida, K. Takase, H. Shimokawa (Sendai, JP)
- Differences in patients with early and late toxic cardiomyopathy post-chemotherapy: characteristics and prognosis** P277  
 U. Lopez, J. Gonzalez, J. Delgado, J. Carvajal, S. Pernas, C. Diez, J. Roca, E. Garcia, N. Manito, A. Cequier (Barcelona, ES)
- Left ventricle alterations in anthracycline cardiotoxicity in patients with lymphomas.** P278  
 E. Emelina, G.E. Gendlin, I.G. Nikitin (Moscow, RU)
- Assessing a various biomarker panel for early detection of cardiotoxicity after treatment with anthracyclines** P279  
 M. Trofenciu, M. Puticiu, M. Onel, C. Hreniuc, H. Branea, A. Bordejevic, M. Tomescu, A. Mischie, A. Pop-Moldovan (Arad and Timisoara, RO; Montluçon, FR)
- Activity and outcomes of a cardio-oncology service in a public hospital of Greece; a two-year experience** P280  
 P. Kostakou, V. Kostopoulos, E. Tryfou, C.H. Olympos, N. Kouris (Athens, GR)
- Chemotherapy induced cardiotoxicity. The role of right ventricle.** P281  
 E. Oikonomou, M. Anastasiou, G. Siasos, F. Zagouri, A. Antonopoulos, S. Tsalamandris, G. Vogiatzi, A. Bamias, M.A. Dimopoulos, D. Tousoulis (Athens, GR)
- Prevention of heart failure with cardioprotective therapy after early detection of cardiotoxicity during chemotherapy in cancer patients using CMR Fast-SENC intramyocardial LV & RV strain** P282  
 H. Steen, M. Montenbruck, P. Wuelfing, S. Esch, A. Schwarz, B. Gersak, S. Kelle, D. Lenihan, G. Korosoglou (Hamburg, Berlin and Weinheim, DE; Ljubljana, SI; St. Louis, US)
- Three-dimensional ECHO in serial monitoring of patients undergoing Trastuzumab therapy** P283  
 S. Grigoriadis, I. Vogiatzis, J. Draper, E. Gavriilaki, S. Kaptenakis (Veria and Thessaloniki, GR; London, GB)
- Assessment of three-dimensional echocardiography as a diagnostic tool for detecting chemotherapy-induced cardiotoxicity** P284  
 S. Grigoriadis, I. Vogiatzis, E. Gavriilaki, J. Draper, S. Kapetanakis (Veria and Thessaloniki, GR; London, GB)
- Clinical outcomes and predictors of cancer therapy related cardiac dysfunction (CTRCD) in breast cancer patients on Trastuzumab: Real world data from an integrated cardio-oncology service** P285  
 M. Mahmood, L. Spurgeon, S. Naveed, S. Apostolakis (Birmingham, GB)
- Low pulmonary artery pulsatility index is associated with adverse outcomes in patients with advanced heart failure** P286  
 S. Cesini, S. Bhagra, S. Pettit (Cambridge, GB)
- Do NT-proBNP levels depend on the diameter of abdominal aorta in patients with chronic HFpEF and AAA?** P287  
 S.-M. Papazoglou, U. Jaffer, M. Aslam, A. Trikas, C. Pantos, K. Toutouzas, P. Nihoyannopoulos, C.H. Stefanadis, D. Tousoulis, N. Standfield (Athens, GR; London, GB)
- The prevalence and clinical associations of ultrasound measures of congestion in patients at risk of developing heart failure: insights from the HOMAGE trial.** P288  
 J. Cuthbert, P. Pellicori, R. Flockton, A. Kallvikbacka-Bennett, J. Khan, J.G. Cleland, A.L. Clark (Hull and Glasgow, GB)
- Pulmonary wedge measurements at the trough of Y-descent provide more reliable and predictive diastolic pressure gradient estimation.** P289  
 A. Manouras, J. Johnson, L.H. Lund, A.I. Nagy (Stockholm, SE; Budapest, HU)
- Right ventricular function using real-time three-dimensional echocardiography according to the acute volume reduction** P290  
 C.S. Park, A.M. Gwon, G.H. Kim, H.S. Ahn, J.S. Cho, H.J. Youn (Seoul, KR)
- Best wedge as a predictor of right ventricle** P291  
 O. Yildirimturk, B. Gungor, E. Bozbeyoglu, D. Inan, A.I. Tekkesin (Istanbul, TR)
- Changes in the ratio of discocytes and pathological forms of erythrocytes and microcirculation in chronic heart failure** P292  
 D.K.H. Rakhmanov, M.S. Mirmaksudov, I.M. Baybekov (Tashkent, UZ)

## Posters Sessions

- Can invasive hemodynamics reflect a poor renal perfusion pressure in end stage heart failure?** P293  
S. Esmaily, E. Bobbio, S.E. Bartfay, P. Dahlberg, E. Bollano, G. Dellgren, K. Karason (Gothenburg, SE)
- Ventricular function recovery in chronic heart failure patients** P294  
V. Chaves, V. Guiomar, A. Monteiro, I. Albuquerque, J. Pereira, C. Gomes, I. Ferreira, S. Tavares, P. Lourenco, P. Bettencourt (Porto, PT)
- CHRONIC HEART FAILURE - EPIDEMIOLOGY, PROGNOSIS, OUTCOME**
- Changes in the causes of death in a heart failure unit in Spain along 17 years** P295  
P. Moliner, J. Lupon, M. De Antonio, M. Domingo, E. Santiago-Vacas, E. Zamora, J. Santesmases, C. Diez-Quevedo, M.I. Troya, M. Boldo, S. Altimir, N. Alonso, B. Gonzalez, J. Nunez, A. Bayes-Genis (Badalona and Valencia, ES)
- Epidemiology and long-term outcome in outpatients with chronic heart failure in north-western europe** P296  
H. Froehlich, N. Rosenfeld, T. Taeger, K. Goode, S. Kazmi, T. Hole, H.A. Katus, D. Atar, J.G.F. Cleland, S. Agewall, A.L. Clark, L. Frankenstein, M. Grundtvig (Heidelberg, DE; Hull and London, GB; Trondheim, Oslo and Lillehammer, NO)
- Identification of founder MYBPC3 gene mutations in hungarian patients with hypertrophic cardiomyopathy** P297  
A. Tringer, L. Hategan, B. Csanyi, J. Borbas, E. Palinkas, V. Nagy, Z. Hegedus, I. Nagy, T. Forster, R. Sepp (Szeged, HU)
- Trends in heart failure epidemiology between 2007 and 2016 in Piedmont, Italy: findings from the Epi-HF study** P298  
D. Castagno, E. Pivetta, R. Gnani, R. Picariello, G. Costa, M. Maule, A. Maisano, E. Strippoli, F. Gaita, M. Rinaldi (Turin, IT)
- Prognostic value of handgrip strength in patients with heart failure** P299  
T. Furlan, D. Kosuta, K. Vrbinc Vrtek, V. Grilj, S. Poznic, K. Poposek, B. Leskovar (Trbovlje, SI)
- Trends in incidence and survival in patients with heart failure in sweden: insights from swedish coronary angiography and angioplasty registry** P300  
E. Omerovic (Gothenburg, SE)
- Previous cardiomyopathy in cardiogenic shock** P301  
H. Santos, J. Fernandes, T. Vieira, R. Pinto, T. Filipa, A.R. Ferreira, M. Rios, T. Honrado (Barreiro and Porto, PT)
- Revisiting the obesity paradox in heart failure: percent body fat as predictor of biomarkers and outcome** P302  
A. Aimo, J.L. Januzzi, G. Vergaro, J.N. Cohn, H.P. Brunner-La Rocca, A. Bayes-Genis, J. Lupon, R.A. De Boer, Y. Takeishi, M. Egstrup, H.K. Gaggin, K. Eggers, R. Latini, K. Huber, M. Emdin (Pisa and Milan, IT; Boston and Minneapolis, US; Maastricht and Groningen, NL; Badalona, ES; Fukushima, JP; Copenhagen, DK; Uppsala, SE; Vienna, AT)
- Prognostic significance of obesity after ST-elevation myocardial infarction: the impact on heart failure** P303  
R. Costa, R. Santos, M. Tropa, S. Vieira, M. Santos, M. Oliveira, A. Frias, A. Luz, M. Santos, S. Torres (Porto, PT)
- Comparative analysis of multiparametric scores in heart failure: does the type of follow-up matter?** P304  
J.R. Agostinho, T. Rodrigues, R. Santos, N. Cunha, J. Rigueira, A. Nunes-Ferreira, I. Aguiar-Ricardo, I. Goncalves, P. Antonio, S. Pereira, M.M. Pedro, F. Veiga, N. Lousada, F.J. Pinto, D. Brito (Lisbon, PT)
- Heart failure in healthy young people with left bundle branch block: long-term follow-up** P305  
L. Rivetti, N. Sitta, G. Allocca, G. Turiano, E. Lanari, M. Centa, P. Delise (Conegliano and Peschiera del Garda, IT)
- Impact of recurrent heart failure hospitalizations on cardiovascular mortality in patients with heart failure in CPRD, a UK database** P306  
R. Lahoz, A. Fagan, M. Mcsharry, C.W.J. Proudfoot, S. Corda, R. Studer (Basel, CH; Dublin, IE)
- Direct costs of heart failure in a portuguese population.** P307  
L. Santos, C. Fonseca, A.P. Marques, S. Lopes (Funchal and Lisbon, PT)



## Posters Sessions

- European Heart Failure Awareness day: evaluation of self-reported and control of cardiovascular risk factors** P308  
 S. Binno, G.Q. Villani, G.F. Misuraca, S. Nodari, G. Rubino, A. Mortara, D. Pini, A.B. Scardovi, M. Penco, M. Correale, C. Cerrai, L. Moderato, M.F. Piepoli (Piacenza, Cosenza, Brescia, Marsala, Monza, Milan, Rome, L'Aquila and Foggia, IT)
- Differences between diabetics and non-diabetics with chronic heart failure and its impact on prognosis** P309  
 L. Spinarova, J. Spinar, J. Parenica, M. Spinarova, O. Ludka, K. Labr, F. Malek, P. Ostadal, J. Jarkovsky (Brno and Praha, CZ)
- Prognostic nutrition index predicts prognosis in ultra-elderly patients with heart failure** P310  
 T. Kawata, A. Ikeda, S. Komatsu (Tokyo, JP)
- Co-morbid conditions and their relationship with mortality in elderly heart failure patients** P311  
 V.N. Larina, D.G. Karpenko, V.G. Larin (Moscow, RU)
- Heart failure with preserved ejection fraction (HFpEF); a mexican cohort** P312  
 L. Arizmendi, M. Rosas-Peralta, D. Salinas-Morales, A. Chanona, A. Contreras, E. Ramirez-Arias, G. Castro-Martinez, A. Cigarroa-Lopez, J. Magana Serrano (Mexico City and Mexico City, MX)
- Structural determinants of therapeutic compliance in Chilean heart failure patients** P313  
 H.E. Verdejo Pinochet, F. Diaz, P.F. Castro (Santiago, CL; New York, US)
- Association between Phase angle and hypoxia in heart failure and chronic obstructive pulmonary disease** P314  
 A. Orea Tejeda, D. Gonzalez, R. Sanchez Santillan, L. Verdeja Vendrell, L. Hernandez Urquieta, A.A. Ibarra Fernandez, Y. Pilotzi Montiel, S. Hernandez Lopez, A. Velazquez Montero, R. Hernandez Zenteno, V. Pelaez Hernandez, K. Balderas Munoz (Mexico City, MX)
- Frailty and prognosis in heart failure. A prospective study with a quick and self-administered scale.** P315  
 J. Sanchez Vega, G.L. Alonso Salinas, S. Del Prado Diaz, J.M. Vieitez Florez, E. Gonzalez Ferrer, J.L. Zamorano (Madrid, ES)
- Snapshot evaluation of heart failure in Turkey: baseline characteristics of SELFIE-TR** P316  
 A. Celik, M.B. Yilmaz (Mersin and Izmir, TR)
- Epidemiology of heart failure: incidence, prevalence, and risk factors from a systematic review** P317  
 C. Lam, M. Stokes, L. Qin, J. Medina, S. Nambiar, G. Saraiva (Singapore, SG; Saint-Laurent, Quebec, CA; Gaithersburg, MD and Waltham, MA, US; Madrid, ES)
- A multicenter Brazilian cohort to optimize heart failure treatment using an organized multidisciplinary approach - Optimize Brazil** P318  
 R. Mourilhe Rocha, P.P.M. Spinetti, P. Schwartzmann, F. Camazzola, S. Rassi, A.F. Freitas Junior, J.D. Souza Neto, L.C. Danzmann, D.C. Albuquerque (Rio de Janeiro, Ribeirao Preto, Caxias do Sul, Goiania, Fortaleza and Porto Alegre, BR)
- Prevalence and prognostic association of hyperuricemia in heart failure patients with reduced ejection fraction** P319  
 I. Pereira Oliveira, D. Seabra, A. Leal Neto, A. Andrade, J. Azevedo, P. Pinto (Penafiel, PT)
- Echocardiographic features of ultra-elderly heart failure patients in Japan: secondary tricuspid regurgitation due to atrial fibrillation** P320  
 T. Kawata, A. Ikeda, S. Komatsu (Tokyo, JP)
- Epidemiology of atrial fibrillation among heart failure patients according to ejection fraction.** P321  
 A. Rakishcheva, A. Mussagaliyeva, A. Klimentko, K. Koshumbayeva, A. Isabekova, A. Tashmanova (Almaty, KZ; Moscow, RU)
- Gender differences in heart failure with mid-range ejection fraction patients** P322  
 J.-H. Choi, J.C. Choi (Busan, KR)
- Capability for self-care of patients with heart failure** P323  
 A. Mlynarska, R. Mlynarski, C. Marcisz, K.S. Golba (Katowice, PL)
- Heart failure in women: insights from the RECOLFACA registry** P324  
 C.I. Saldarriaga, J.E. Gomez, L.E. Echeverria (Medellin, Cali and Bucaramanga, CO)
- Profile comparison of an elderly cohort with HFpEF and HFrEF: a multivariate analysis of mortality risk factors and death causes attested by CID10** P325  
 E. Pitthan, V.N. Hirakata, J.N. Barbisan (Porto Alegre, BR)

## Posters Sessions

- Predictors of combined critical endpoint (all-cause death/heart failure hospitalization) inpatients with chronic heart failure and reduced left ventricular ejection fraction.** P326  
A. Lyashenko, P. Babich, N. Tkach, L. Voronkov (Kiev, UA)
- Prognostic value of depression, anxiety disorders and inflammatory markers in patients with heart failure** P327  
E. Gazi, E. Karaahmet, H. Turkon, A. Barutcu (Canakkale and Istanbul, TR)
- The difference in association of atrial fibrillation and sinus rhythm with heart failure with reduced, mid-range and preserved ejection fraction.** P328  
A. Rakisheva, A. Mussagaliyeva, K. Koshumbayeva, A. Isabekova, B. Ahyt, F. Zeynaliyeva (Almaty, KZ)
- Correlation of endorgan function and bioimpedance measurement in patients with advanced heart failure** P329  
L. Roehrich, J. Knierim, J. Mulzer, M. Mueller, V. Falk, C. Starck, E. Potapov, S. Suendermann, F. Schoenrath (Berlin, DE)

### CHRONIC HEART FAILURE - DIAGNOSTIC METHODS

- Functional capacity and body composition in subjects with heart failure and COPD** P330  
S. Hernandez Lopez, S. Galicia Amor, D. Gonzalez, A. Orea Tejada, Y. Pilotzi Montiel, L. Hernandez Urquieta, F. Salgado Fernandez, A. Jimenez Valentin, A.J. Flores Vargas, L. Verdeja Vendrell, R. Sanchez Santillan, R. Hernandez Zenteno, N. Garcia Galvez, V. Fernandez Badillo (Mexico city, MX)
- Evaluation of body composition and endothelial dysfunction in heart failure and chronic obstructive pulmonary disease subjects** P331  
F. Salgado Fernandez, D. Gonzalez, A. Orea Tejada, R. Sanchez Santillan, A.J. Flores Vargas, L. Hernandez Urquieta, A. Ibarra Fernandez, R. Davila Ramos, A. Vazquez Montero, K. Balderas Munoz, V. Pelaez Hernandez, R. Hernandez Zenteno (Mexico city and Mexico City, MX)
- Performance of an implanted cardiac device heart failure risk predictor, in a real-world tertiary heart failure clinic** P332  
B. Li, S. Langley, L. Reid, J. Young, J. Sibley, P. Cliffe, S. Harris, P. Phen, R. Barbagallo, J. Dzungu, H.O. Savage (Basildon, GB)
- Rate pressure product and severely impaired systolic function in heart failure patients** P333  
I. El-Dosouky, H., G. Abumandour (Zagazig, EG)
- Improving diagnostic awareness of amyloidosis among cardiologists: effectiveness of online education** P334  
J. Spyropoulos, E. Van Laar (New York, US)
- Identification of preclinical predictors of systolic dysfunction in the elderly population without a diagnosis of heart failure: Results from the PULSE-HF study** P335  
M.E. Esquerro, R. Zamora, D. Caruso, E.R. Perna, C. Engel, M. Manzotti, S. Volman, L. Pereyra (Buenos Aires, Corrientes and Salta, AR)
- The role of galectin-3 in obese patients with heart failure** P336  
A. Dadarlat, D. Pop, D. Zdrenghea, G. Bodisz, F. Fringu, D. Gurzau, S. Susca-Hjoda, A.D. Buzoiianu (Cluj-Napoca, RO)
- Comparative evaluation of the functional state of the lungs in various types of dilated cardiomyopathy** P337  
Y.R. Akhmatov, T.A. Abdullaev, I.A. Tsoy (Tashkent, UZ)
- HFA-PEFF versus H2FPEF score for diagnosing heart failure with preserved ejection fraction** P338  
S. Van Wijk, A. Barandiaran Aizpurua, M. Henkens, H.P. Brunner-La Rocca, V.P.M. Van Empel (Maastricht, NL)
- Features heart rate variability at patients with ischemic heart disease, arterial hypertension and left ventricle hypertrophy** P339  
A. Ibatov (Moscow, RU)

## Posters Sessions

- Body composition and oxygen saturation recovery after six-minute walk test in heart failure and chronic obstructive pulmonary subjects** P340  
 Y. Pilotzi Montiel, S. Galicia Amor, A. Orea Tejada, D. Gonzalez, R. Sanchez Santillan, S. Hernandez Lopez, L. Hernandez Urquieta, F. Salgado Fernandez, A. Jimenez Valentin, L. Verdeja Vendrell, K. Balderas Munoz, V. Pelaez Hernandez, R. Hernandez Zenteno, M. Teresa Landa (Mexico city, MX)
- The relationship of sympathetic regulation with immune inflammation, fibrosis, neurohumoral activation in patients with devices for cardioversion-defibrillation and cardiac resynchronisation therapy** P341  
 T.N. Enina, V.A. Kuznetsov, A.M. Soldatova, T.I. Petelina, L.A. Salamova (Tyumen, RU)
- Dynamics of laboratory parameters and left ventricular remodeling in patients with acute myocardial infarction during atorvastatin therapy** P342  
 L. Salyamova, N. Burko, T. Aryasova, V. Oleinikov (Penza, RU)
- Predictive value of growth differentiation factor-15 levels in chronic heart failure with reduced and mid-range ejection fraction with known diabetes mellitus** P343  
 A.E. Berezin, A.A. Kremzer, O.V. Petyunina, A.A. Berezin, M.P. Kopytsya (Zaporozhye and Kharkiv, UA)
- Markers of heart failure and lipid-lowering effect of atorvastatin in patients with myocardial infarction with ST segment elevation** P344  
 V. Oleinikov, Y. Barmenkova, E. Dushina, N. Burko, V. Galimskaya, A. Golubeva (Penza, RU)
- Serum Levels of sST2, proBNP and cTnI for early risk stratification of acute myocardial infarction after percutaneous coronary intervention** P345  
 J. Pan, C.J. Gao, Z.L. Xia, Y.J. Gao, Y.J. Tao, M.J. Yuan, Z.G. Lu, Y.P. Wang (Shanghai, CN)
- Use of composite laboratory measurements to assess frailty in stable elderly patients with heart failure** P346  
 A. Hirashiki, K. Kawashima, K. Nomoto, M. Kokubo, A. Shimizu, H. Arai (Obu, JP)
- Predictors of anaemia and iron deficiency in patients with chronic heart failure.** P347  
 N. Ebner, G. Dinopoulos, R. Evertz, T. Garfias Macedo, B. Godoy, M. Vatic, C. Diehl, J. Springer, S. Von Haehling (Goettingen, DE)
- Decrease in Fibrosis-4 index is associated with decrease in NT-proBNP in patients with acute heart failure** P348  
 T. Yamada, S. Sakuragi, M. Nakashima (Iwakuni, JP)
- Phoenixin concentration in plasma of heart failure with reduced ejection fraction patients.** P349  
 T. Zemleduch, K. Ratajczyk, J. Majewska, K. Dabrowska, K. Marek-Bukowiec, A. Ziolkowska (Zielona Góra, Wrocław and Zielona Gora, PL)
- Determinant factors of plasma fibroblast growth factor 23 levels in patients with heart failure patients with reduced ejection fraction** P350  
 D. Gruson, A.C. Pouleur, S.A. Ahn, M. Rousseau (Brussels, BE)
- Role of exhaled metabolites of biogenic amines in diagnostics of heart failure** P351  
 N.N. Nasirdinov, N.I. Qodirova (Andijan, UZ)
- Differences in the expression of the novel cardiac biomarkers sST2, GDF-15, suPAR and H-FABP in HFpEF, ICM and DCM patients** P352  
 P. Jirak, M. Lichtenauer, B. Wernly, V. Paar, C. Jung, U. Hoppe, P.C. Schulze, R. Pistulli, D. Kretzschmar, T. Bekfani (Salzburg, AT; Dusseldorf, Jena and Münster, DE)

### CHRONIC HEART FAILURE - TREATMENT

- Ventricular arrhythmias in patients with continuous-flow left ventricular assist devices** P353  
 A. Gkouziouta, M. Bonios, D. Zarkalis, S. Adamopoulos, N. Kogerakis (Athens, GR)
- Treating advanced heart failure patients with biventricular assist devices in a low organ donation environment** P354  
 A. Gkouziouta, D. Zarkalis, S. Adamopoulos, N. Kogerakis (Athens, GR)
- Coronary flow reserve estimated by 82-rubidium positron emission tomography predicts survival in long-term heart transplant recipients** P355  
 L. Nelson, T.E. Christensen, P. Hasbak, F. Gustafsson (Copenhagen, DK)

## Posters Sessions

- Is there a mortality weekend effect in cardiac transplantation?** P357  
R. Chand, C.J. Lum, A. Salimbangon, A. Chang, M. Deng, A. Ardehali, E. Depasquale (Los Angeles, US)
- Pregnancy in patients with pre-existing cardiomyopathy and in cardiac transplant patients** P358  
L. Vojtíckova, M. Kubanek, M. Podzímková, M. Hegarova, L. Hoskova, A. Krebsova, V. Melenovsky, J. Kautzner (Prague, CZ)
- Use of idarucizumab to reverse the anticoagulant effect of dabigatran in cardiac transplant surgery. a multicentric experience in spain** P359  
M.G. Crespo-Leiro, R.L.V. Raquel Lopez-Vilella, A.L.G. Amador Lopez Granados, S. Mirabet-Perez, C. Diez-Lopez, E. Barge-Caballero, J. Segovia-Cubero, F. Gonzalez-Vilchez, D. Rangel-Sousa, T. Blasco-Peiro, L. De La Fuente-Galan, B. Diaz-Molina, E. Zatarain-Nicolas, F. Carrasco Avalos, L. Almenar-Bonet (La Coruña, Valencia, Cordoba, Barcelona, Madrid, Santander, Sevilla, Zaragoza, Valladolid and Oviedo, ES)
- Regenerative therapy in patients with ischemic cardiomyopathy from cardiac transplant waiting list** P360  
D. Shorikova, A. Gabrielyan, E. Shorikov (Chernivtsy and Kyiv, UA)
- The impact of extracorporeal photopheresis on peripheral blood leukocyte subclasses in heart transplant recipients** P361  
T. Teszak, A. Assabiny, A. Kiraly, Z. Tarjanyi, N. Parazs, Z. Szakal-Toth, I. Hartyanszky, Z. Szabolcs, A. Fodor, Z. Farkas, M. Reti, B. Sax, B. Merkely (Budapest, HU)
- Is there a mortality weekend effect in cardiac transplantation for patients with Adult Congenital Heart Disease?** P362  
R. Chand, C.J. Lum, A. Chang, A. Salimbangon, M. Deng, A. Ardehali, E. Depasquale (Los Angeles, US)
- Tracheostomy after orthotopic heart transplantation** P363  
M. Zaleska-Kociecka, R. Fernandez Garda, M. Morosin, J. Dutton, D. Garcia Saez, A. Simon, B. Zych, T. Aw, N. Lees, A. Hurtado Doce (London, GB)
- Bicaval vs biatrial anastomosis techniques in orthotopic heart transplantation: an updated analysis of the UNOS database** P364  
J. Maning, V. Blumer, G. Hernandez, H. Li, S. Chaparro (Miami, US)
- Diastolic function evaluation in heart transplantation** P365  
F. Loiaco, G. Calonaci, A. Ibrahim, B.M. Natali, S. Bernazzali, S. Mondillo, M. Cameli (Siena, IT)
- Mortality risk factors in patients from a heart transplantation waiting list** P367  
A. Kostomarov, P. Fedotov, M. Simonenko, Y.U. Sazonova, M. Bortsova, M. Sitnikova (Saint-Petersburg, RU)
- Incidence of vasoplegic syndrome after cardiac transplant in patients treated with Sacubitril/Valsartan** P368  
J.M. Dominguez, J.M. Paines, S. Mirabet, E. Garcia Romero, J. Gonzalez Costello, M. Farrero, F. Perez Villa (Barcelona, ES)
- Feasibility of heart transplant in a distant insular population: accessibility and outcomes in patients from the Canary Islands** P369  
Z. Blazquez Bermejo, J. Hernandez-Afonso, A. Garcia-Quintana, J.M. Medina, J.J. Grillo, M.D. Garcia-Cosio, L. Moran-Fernandez, P. Caravaca-Perez, I. Ponz-De Antonio, P. Escribano-Subias, V. Sanchez, E. Renes, F. Arribas-Ynsaurriaga, J.M. Cortina, J.F. Delgado (Madrid, Santa Cruz de Tenerife and Las Palmas De Gran Canaria, ES)
- Tacrolimus and neoplasia. Do level really be important?** P370  
A. Grande Trillo, J.M. Sobrino-Marquez, M.R. Caballero-Valderrama, I. Sayago-Silva, D. Rangel-Sousa (Seville, ES)
- Donor age in heart transplantation: results and controversies** P371  
C. Di Nora, V. Ferrara, S. Sponga, A. Lechiancole, V. Tursi, C. Nalli, G. Guzzi, U. Livi (Udine, IT)
- Is cardiac contractility modulation a new step in heart failure treatment?** P372  
O. Nikolaeva, O.V. Sapelnikov, T.M. Uskach, D.F. Ardus, D.I. Cherkashin, I.R. Grishin, A.A. Safiullina, V.A. Amanatova, I.V. Zhiron, S.N. Tereshenko, R.S. Akchurin (Moscow, RU)
- Preserved contractile function of the myocardium of the right ventricle as a predictor of the effectiveness of cardiac resynchronization therapy.** P373  
D.I. Lebedev, M.V. Lebedeva, S.V. Popov (Tomsk, RU)

## Posters Sessions

- Predictors of response after cardiac resynchronization therapy implantation in heart failure patients** P374  
B. Hennawy, H. Badran, S. Khaled, H. Awadallah (Cairo, EG)
- Dynamics of mechanical dyssynchrony in patients with superresponse to cardiac resynchronisation therapy at a long-term follow-up** P375  
N. Shirokov, V. Kuznetsov, A. Soldatova, S. Dyachkov, D. Krinochkin (Tyumen, RU)
- Gender differences of patients randomized in the AdaptResponse trial** P376  
G.S. Filippatos, D. Birnie, M.F. El-Chami, M.R. Gold, A.S. Hersi, C. Kantipudi, K. Kusano, C. Leclercq, B.P. Merkely, W. Mullens, B. Singh, B. Gerritse, S. Jacobs, B.L. Wilkoff (Athens, GR; Ottawa, CA; Atlanta, Charleston and Cleveland, US; Riyadh, SA; Osaka, JP; Rennes, FR; Budapest, HU; Genk, BE; Gurgaon, IN; Maastricht, NL)
- The efficiency of cardiac resynchronization therapy with atrioventricular correction in patients with chronic heart failure with moderate clinical manifestations** P377  
E.S. Atroshchenko, O.V. Koshlataja, D.V. Romanovskiy, Y.P. Ostrovskiy (Minsk, BY)
- Differences between ischemic and non-ischemic cardiomyopathy and its relationship with long-term outcomes following ventricular assist device placement** P378  
A. Ip, J. Roldan, N. Moss (New York, US)
- Preoperative geriatric nutrition risk index scoring is predictive of survival in LVAD recipients** P379  
M. Kawabori, S. Lofftus, A. Vest, V. Pramil, Y. Zhan, K.G. Warner, H. Rastagar, M.S. Kiernan, F.Y. Chen, G.S. Couper (Boston, US)
- Monitoring Heart rythm across borders** P380  
A. Hooda, A. Sharma, P. Datta, S. Attawar (Gurgaon, Jaipur and Chennai, IN)
- The use of ARNI in the prevention of ventricular assist device implantation among patients with advanced heart failure: a single center experience** P381  
R.R. Cruz, L. Teo, J. Loh, L. Chan, C.Y. Khoo, C.T. Ng, K.L. Kerk, D. Sim (Singapore, SG)
- Inotropic score on postoperative day 0 and 1 is associated with LVAD patients survival** P382  
M. Kawabori, S. Lofftus, J. Soffer, V. Pramil, Y. Zhan, M. Kiernan, D. Denofrio, K.G. Warner, H. Rastagar, F.Y. Chen, G.S. Couper (Boston, US)
- The significance of right ventricular stroke work index for optimizing the selection of suitable candidates for implantation of left heart support** P383  
E. Ozabalova, J. Krejci, P. Hude, J. Godava, T. Honek, H. Poloczkova, J. Lipoldova, H. Bedanova, P. Nemeč, L. Spinarova (Brno, CZ)
- Prolonged mechanical ventilation after left ventricular assist-device implantation: risk factors and clinical implications** P384  
M. Papatthanasiou, R.I. Mincu, L. Johannsen, L. Tsourelis, N. Pizanis, C. Ilias, M. Kamler, T. Rassaf, P. Luedike (Essen, DE)
- Clinical profiles, outcome and prognostic factors of patients treated with percutaneous left ventricular assist devices for protected PCI and cardiogenic shock** P385  
M. Noutsias, M. Ali, M. Matiakis, M. Mammadov, A. Rigopoulos (Halle, DE)
- Organisation programme for left ventricular assist device in end stage heart failure patients - Single centre experience** P386  
D. Kosevic, M.P. Milojevic, M.P. Peric, P.V. Vukovic, P.M. Milacic, S. Micovic, L.J. Djokovic, I. Petrovic, P. Dabic, D. Radoicic, M. Bojic (Belgrade, RS; Skopje, MK)
- Safety of sacubitril-valsartan vs. ramipril in left ventricular assist device carriers and comparison of NTproBNP levels - a pilot study** P387  
N. Jakus, R. Ister, I. Planinc, B. Skoric, H. Jurin, J. Samardzic, D. Lovric, J. Ljubas Macek, D. Fabijanovic, D. Milicic, M. Cikes (Zagreb, HR)
- Implementation of the 2016 ESC guidelines for treatment of heart failure in patients after continuous flow LVAD implantation** P388  
F. Schoenrath, L. Roehrich, J. Mulzer, M. Mueller, C. Starck, E. Potapov, V. Falk, J. Knierim, P. Pergantis (Berlin, DE)
- Temporal changes in N-Terminal prohormone brain natriuretic peptide do not predict pump thrombosis and cardiovascular death in patients with a continuous flow left ventricular assist device** P389  
F. Eismark, S.S. Knudsen, F. Gustafsson, E. Wolsk (Copenhagen, DK)

## Posters Sessions

- Gastrointestinal bleeding after left ventricular assist device implantation: serious problem, multi factorial cause, no proved treatment?** P390  
T. Popov, J. Dejanovic, A. Redzek, M. Golubovic, N. Gocic Peric, M. Petrovic (Novi Sad, RS)
- Clinical outcome and issues of implantable left ventricular assist device (LVAD) treatment at a non-transplant institution located in central Tokyo** P391  
Y. Yasui, T. Sasaoka, T. Fujiwara, T. Yonetsu, Y. Maejima, T. Mizuno, M. Goya, H. Arai, K. Hirao (Tokyo, JP)
- The role of LVAD coordinator in programe for mechanical circulatory support. One year single centre experience.** P392  
Z. Vasic, V. Maricic, S. Josifovic, N. Simic, J. Vukasinovic, S. Boric (Belgrade, RS)
- Prevalence, predictors & outcomes of vitamin D deficiency in heart failure patients in an ambulatory care setting in Ireland.** P393  
L.O.connor, T. Mannion, B.F. Mcadam, S. Fitzgerald (Dublin, IE)
- Effect of therapy with ARNI on cardiac remodelling, functional and biomarker responses in selected cohort of patients with HFREF and influence of aetiology, gender and medication dose.** P394  
T. Mannion, L.O.connor, J. Kelly O Haire, G.O.gara, B.F. Mcadam (Dublin, IE)
- Aerobic exercise, designed with individualized method based on lactate threshold definition, initiate reverse myocardial remodeling in heart failure patients** P395  
T. Lelyavina, M.Y.U. Sitnikova, V.L. Galenko, M.A. Bortzova, P.S. Kozlov (Saint Petersburg, RU)
- High-intensity interval training alleviates consumptive coagulopathy in patients with heart failure** P396  
J.S. Wang (Tao-Yuan, TW)
- Contributing factors to exercise induced desaturation during a six-minute walk test in pulmonary arterial hypertension** P397  
J.-H. Choi, B.J. Lee, J.Y. Shin (Busan, KR)
- Effects of cardiovascular rehabilitation in heart failure patients with mid-range ejection fraction: is there age difference?** P398  
D. Marinkovic, M. Deljanin Ilic, V. Stoickov, B. Ilic, I. Krstic, D. Petrovic (Nis, RS)
- Does religious denomination influence coping in chronic heart failure?** P399  
A.D. Farcas, M.A. Stoia, C.M. Goidescu, D.L. Mocan-Hognogi, R.M. Chiorescu, M. Mocan, F.P. Anton (Cluj Napoca, RO)
- Exercise training in heart failure patients: involvement level, motivation, barriers, and beliefs.** P400  
J.L. Begrambekova, A.A. Efremushkina, J.A. Kojedub, E.A. Smirnova, Y.V. Terekhovskaya, E.V. Adonina, I.V. Petchina, V.Y. Malenkova, A.V. Fendrikova, V.V. Skibitsky, T.A. Lelyavina, I.A. Kuular, N.N. Khromov-Borisov (Moscow, Barnaul, Ryazan, Samara, Arkhangelsk, Cheboxary, Krasnodar and Saint-Petersburg, RU)
- Comparison of characteristics and benefits in patients with heart failure with reduced ejection fraction referred to a cardiac rehabilitation unit** P401  
J.G. Sanchez Ramos, P. Toledo Frias, S. Martinez Huertas, F. Burillo Gomez, T. Gil Jimenez, M. Lopez Perez, J. Caballero Borrego, P. Martin De La Fuente, A. Baustista Paves, E. Moreno Escobar (Granada, ES)
- Wearable defibrillator for the prevention of sudden cardiac death: our preliminary experience.** P402  
M.L. Fais, A. Scalone, D. Pasqualucci, G.F. Tola, B. Schintu, A. Setzu, N. Sanna, P.P. Orru, M. Corda, G. Befacchia, G. Binaghi, A. Giardina, M. Porcu (Cagliari, IT)
- Subacute ICD-lead perforation in patients with noncompaction cardiomyopathy** P403  
B. Schneider, U. Desch, H. Keller, S. Klotz, P. Jirak, C. Stoellberger (Lübeck and Luebeck, DE; Vienna, AT)
- Impact of sacubitril-valsartan compared to angiotensin inhibition on ventricular tachycardia burden in heart failure patients with reduced ejection fraction and implantable defibrillator** P404  
K. Polymeropoulos, A. Stavratsi, J. Zarifis (Thessaloniki, GR)
- Effect of loading dose of sacubitril-valsartan on the incidence of ventricular tachycardia as assessed by ICD interrogation -single center experience** P405  
L. Dujka, J. Vranova, J. Simon, J. Petru, J. Sediva, M. Chovanec, M. Janotka, P. Hala, P. Neuzil, F. Malek (Prague, CZ)
- Primary prevention of implantable cardioverter-defibrillator in systolic heart failure: result of Korean multicenter study** P406  
D. Kim, S.E. Lee, J.O. Choi, E.S. Jeon (Seoul, KR)

## Posters Sessions

- Etiology of dilated cardiomyopathy as the leading predictor of efficiency of implantable cardioverter-defibrillators in prevention of sudden cardiac death** P407  
E.A. Solovyova, O.V. Blagova, V.P. Sedov, E.A. Kogan, E.V. Zaklyazminskaya, A.V. Nedostup (Moscow, RU)
- Temporal trend and outcome of de novo and upgrade CRT procedures; a ten year single centre retrospective analysis** P408  
M. Schroyens, D. Dilling-Boer, P. Koopman, J. Schurmans, J. Vijgen, J. Verwerff, R. Geukens, P.J.R. Timmermans (Hasselt, BE)
- The dynamics of quality of life in patients with congestive heart failure according to cardiac resynchronisation therapy response** P409  
G.S. Pushkarev, V.A. Kuznetsov, A.D. Sapozhnikova, Y.A. Fisher, A.M. Soldatova, T.N. Enina (Tomsk, RU)
- The impact of CRT therapy on valvular regurgitation differ between men and women** P410  
M. Mance, I. Bitunjac, R. Matasic, P. Lepetic, M. Lovric-Bencic (Zagreb and Slavonski Brod, HR)
- Efficacy, safety and cost of comprehensive versus standard remote monitoring of patients with cardiac resynchronisation therapy:design and rationale of the ECOST-CRT Study** P411  
L. Guedon-Moreau, C. Leclercq, A. Lazarus, P. De Groote (Lille, Rennes and Neuilly sur Seine, FR)
- Differential effect of CRT in diabetes mellitus: a retrospective cohort study** P412  
P.C. Kahr, J. Kuster, P. Kaufmann, J. Tonko, D. Hofer, A. Breitenstein, A.M. Saguner, F. Ruschitzka, J. Steffel, S.H. Winnik (Zurich, CH)
- New hemodynamic index to identify different profiles in patients implanted with HM3** P413  
A. Montalto, V. Piazza, M. Comisso, F. Nicolo, C. Contento, A. Cammardella, F. Musumeci (Rome, IT)
- Pulse oximeter usefulness for blood pressure monitoring in patients implanted with latest generation L-VAD (left ventricle assist device).** P414  
A. Palermo, A. Montalto, E. Vitalini (Rome, IT)
- Development of a co-designed written resource for carers of patients with heart failure.** P415  
L. Cassidy, L. Hill, D. Fitzsimons (Belfast, GB)

### CHRONIC HEART FAILURE - PREVENTION

- Differences in the quality of life related to health among informal primary caregivers of right heart failurepatients according to the level of perceived burden** P416  
L.A. Martinez-Bautista, V. Pelaez-Hernandez, L.V. Pachicano-Romero, C. Pineda-Sanchez, A. Orea-Tejeda, G.L. Luna-Rodriguez, K.L. Rosales-Castillo, K. Balderas-Munoz, D. Gonzalez-Islas, N.R. Sanchez-Santillan, C.R. Zepeda-Dominguez, A.A. Ibarra-Fernandez, A.J. Flores-Vargas, R. Davila-Ramos, A. Jimenez-Valentin (Mexico City, MX)
- Comparison of CHA2DS2-VASc and AHEAD scores for the prediction of incident dementia in patients hospitalized forheart failure** P417  
W.S. Hu (New Taipei City, TW)
- Hand strength measured by dynamometry related to cognitive function in patients with right heart failure associated with COPD** P418  
L. Pachicano-Romero, V. Pelaez-Hernandez, A. Orea-Tejeda, C. Pineda-Sanchez, G.L. Luna-Rodriguez, L.A. Martinez-Bautista, C.R. Zepeda-Dominguez, L. Garcia-Flores, K.L. Rosales-Castillo, A.A. Ibarra-Fernandez, L. Hernandez-Urquieta, A. Flores-Vargas, A. Jimenez-Valentin, D. Gonzalez-Islas, A.S. Hernandez-Lopez (Mexico City, MX)
- Predictive factors of depression in patients with cardiorespiratory failure** P419  
G.L. Luna-Rodriguez, L.V. Pachicano-Romero, C. Pineda-Sanchez, V. Pelaez-Hernandez, A. Orea-Tejeda, A. Jimenez-Valentin, M.F. Salgado-Fernandez, L.A. Martinez-Bautista, C.R. Zepeda-Dominguez, K.L. Rosales-Castillo, A.A. Ibarra-Fernandez, L. Hernandez-Urquieta, A.J. Flores-Vargas, K. Balderas-Munoz, R.A. Davila-Ramos (Mexico City, MX)
- Cognitive impairment in hospitalized patients with right heart failure according to the length of hospital stay** P420  
C. Pineda-Sanchez, V. Pelaez-Hernandez, A. Orea-Tejeda, L.V. Pachicano-Romero, G.L. Luna-Rodriguez, L.A. Martinez-Bautista, C.R. Zepeda-Dominguez, K.L. Rosales-Castillo, A.A. Ibarra-Fernandez, L. Hernandez-Urquieta, A. Flores-Vargas, A. Jimenez-Valentin, R. Davila-Ramos, M.F. Salgado-Fernandez (Mexico City, MX)

## Posters Sessions

- Differences in quality of life and burden between caregivers of right heart failure and COPD patients with different levels of family functionality** P421  
 C. Pineda-Sanchez, V. Pelaez-Hernandez, A. Orea-Tejeda, L.V. Pachicano-Romero, L. Luna-Rodriguez, L.A. Martinez-Bautista, C.R. Zepeda-Dominguez, K.L. Rosales-Castillo, D. Gonzalez-Islas, A.A. Ibarra-Fernandez, L. Hernandez-Urquieta, A.J. Flores-Vargas, M.F. Salgado-Fernandez, A. Jimenez-Valentin, R. Davila-Ramos (Mexico City, MX)
- Association of Isolated cardiometabolic syndrome and the incidence of heart failure** P422  
 S. Kim, H.J. Kim, H.S. Kim, S.W. Han, K.H. Ryu (Seoul and Dongtan, KR)
- Heart failure awareness status in Korea -Rationale and design of the KNOW-HF Study** P423  
 J.H. Choi, J.O. Na, M.H. Jung, H.L. Kim, S. Lee, Y.H. Cho, K.I. Cho, E.J. Kim (Seoul, Chuncheon, Dongtan and Busan, KR)
- Cardiovascular risk in caregivers of right heart failure patients** P424  
 V. Pelaez-Hernandez, L.V. Pachicano-Romero, A. Orea-Tejeda, C. Pineda-Sanchez, L. Luna-Rodriguez, A. Martinez-Bautista, C. Zepeda-Dominguez, K. Rosales-Castillo, D. Gonzalez-Islas, A.A. Ibarra-Fernandez, L. Hernandez-Urquieta, A.J. Flores-Vargas, K. Balderas-Munoz, M.F. Salgado-Fernandez, R.N. Sanchez-Santillan (Mexico City, MX)
- Characteristics of patients with cardiovascular disease and increased plasma concentrations of NT-proBNP: the HOMAGE randomised trial** P425  
 J.G.F. Cleland, P. Pellicori, N. Girerd, B. Mariottoni, J.P. Ferreira, J. Verdonschot, F. Ahmed, F. Cosmi, J. Petutschnigg, J. Cuthbert, J. Khan, B. Mujaj, A.L. Clark, T. Collier, F. Zannad (Glasgow, Manchester, Hull and London, GB; Nancy, FR; Cortona, IT; Maastricht, NL; Berlin, DE; Leuven, BE)
- To evaluate the efficacy of heart failure reversal therapy using NT-proBNP levels in patients with chronic heart failure** P426  
 R. Sane, R. Mandole (Mumbai, IN)
- Self-efficacy, burden, anxiety and depression in caregivers of heart failure and chronic obstructive pulmonary disease patients** P427  
 C. Zepeda Dominguez, L.V. Pachicano-Romero, V. Pelaez-Hernandez, C. Pineda-Sanchez, A. Martinez-Bautista, A. Orea-Tejeda, L. Luna-Rodriguez, A.A. Ibarra-Fernandez, D. Gonzalez-Islas, K. Rosales-Castillo, L. Hernandez-Urquieta, M.F. Salgado-Fernandez, N.R. Sanchez-Santillan, R. Davila-Ramos, A.J. Flores-Vargas (Mexico City, MX)
- Gender differences in anxiety, depression, and functional capacity in heart failure patients** P428  
 C. Zepeda Dominguez, L.V. Pachicano-Romero, V. Pelaez-Hernandez, C. Pineda-Sanchez, A. Martinez-Bautista, A. Orea-Tejeda, L. Luna-Rodriguez, A.A. Ibarra-Fernandez, D. Gonzalez-Islas, K. Rosales-Castillo, L. Hernandez-Urquieta, R.N. Sanchez-Santillan, K. Balderas-Munoz, R. Davila-Ramos, A.J. Flores-Vargas (Mexico City, MX)

### CHRONIC HEART FAILURE - CLINICAL

- Comorbidity of recurrent angina pectoris and depression** P429  
 S.A. Matskevich, M.I. Belskaya (Minsk, BY)
- Co-morbid pathology in long-time prognosis in patients with chronic heart failure decompensation** P430  
 S.U. Volkova, K.A. Tomashevich, E.V. Panteeva, A.Y. Efanov (Tyumen, RU)
- Relation between reduce ejection fraction and severity of ischemic stroke** P431  
 N.C. Zareba, C.E. Sandoval, S. Garcia Zamora, M. Urdapilleta, C.L. Gonzalez, J.J. Herrera Paz (Buenos Aires, AR)
- Hypothyroidism versus hyperthyroidism in patients with heart failure. Which is worse?** P432  
 B. Caloian, M. Suceveanu, I. Garboan, H. Comsa, D. Gurzau, F. Fringu, D. Zdrenghea, D. Pop (Cluj-Napoca, RO)
- Analysis of the level of anxiety and depression, and personality type in outpatientswith chronic heart failure and the influence of these factors on quality of life and commitment to therapy** P433  
 S.U. Volkova, E.V. Panteeva (Tyumen, RU)
- Changes in respiratory pulmonary function in patients with advanced heart failure listed for heart transplantation.** P434  
 B. Keller, J.M. Dominguez, S. Vazquez, G. Spitaleri, M. Farrero, F. Perez-Villa, M.A. Castel Lavilla (Barcelona, ES)



## Posters Sessions

- Iron status and correlates of its deficiency in chronic heart failure patients in a west african cardiology practice** P435  
 U. Amaechi, A.C. Mbakwem, M.O. Kehinde (Lagos, NG)
- Etiology of community-acquired pneumonia in patients with chronic heart failure** P436  
 A.A. Bobylev, S.A. Rachina, S.N. Avdeev, M.V. Sukhorukova, S.B. Yatsyshina, S. Omar, O.T. Zorya, A.E. Solovjeva (Smolensk and Moscow, RU)
- Depleted iron stores are associated with decreased exercise capacity in patients with non-ischaeamic cardiomyopathy** P437  
 M. Drozd, M. Tkaczyszyn, A. Zapolska, T. Walczak, J. Tobiszewski, P. Franczuk, A. Kosiorek, I. Flinta, J. Jaroch, A. Soltowska, K. Kulej-Lyko, W. Banasiak, P. Ponikowski, E.A. Jankowska (Wroclaw, PL)
- Relationship between domains of Kihon Checklist with frailty status and exercise capacity in stable elderly patients with heart failure** P438  
 A. Hirashiki, K. Kawashima, K. Nomoto, M. Kokubo, A. Shimizu, H. Arai (Obu, JP)
- Comorbidities in patients with coronary artery disease: gender differences** P439  
 M. Sumin, E.V. Korok, A.V. Shcheglova, O.L. Barbarash (Kemerovo, RU)
- Prevalence of post-stroke erectile dysfunction and associated cardiovascular risk factors and co-morbidities** P440  
 M. Trofenciuc, A. Pop-Moldovan, M. Onel, N. Dugacicu, M. Puticiu, M. Tomescu, H. Branea, A. Bordejevic, D. Gaita, A. Mischie, C. Hreniuc (Arad and Timisoara, RO; Montluçon, FR)
- Cheyne-Stokes respiration in patients with atrial fibrillation is associated with high left ventricular filling pressure** P441  
 H. Matsumoto, T. Kasai, A. Sato, S. Ishiwata, S. Yatsu, J. Shitara, A. Murata, T. Kato, S. Suda, M. Hiki, Y. Matsue, H. Tabuchi, H. Hayashi, G. Sekita, H. Daida (Tokyo, JP)
- «Obesity Paradox» in patients with chronic heart failure and comorbidity** P442  
 E.V. Efremova, A.M. Shutov, M.I. Tolstyga, S.A. Suvorova, I.V. Kozlova, V.N. Sporova, V.A. Novgorodskij (Ulyanovsk, RU)
- Plant Gain, Chemoreflex Gain, Circulation Time and Cheyne-Stokes Respiration in Heart Failure** P443  
 A. Giannoni, F. Gentile, A. Navari, C. Borrelli, G. Vergaro, G. Mirizzi, G. Catapano, F. Grotti, D.P. Francis, C. Passino, M. Emdin (Pisa, IT; London, GB)
- Ensuring the «safety» of cancer octogenarian patients with comorbid chronic heart failure during non-cardiac operations in a multidisciplinary surgical clinic.** P444  
 Y.F. Frolova (Moscow, RU)
- Needs for psychological support in heart failure patients** P445  
 C. Silva-Ruz, J. Sanchez-Sosa, M. Martinez-Rios, D. Garcia-Romero, M. Balbuena-Madera, O. Fiscal-Lopez, E. Tapia-Lopez, E.J.J. Chuquiure (Mexico City, MX)
- Clinical features of chronic heart failure with reduced left ventricular ejection fraction with concomitant iron deficiency** P446  
 M. Kolesnyk, V. Ivanov, O. Kolesnyk, O. Bilonko, O. Afanasiuk, E. Osyadla, Y. Shushkovska (Vinnitsa, UA)
- High risk of ischemic stroke but not of cerebral bleeding in patients with heart failure without atrial fibrillation: a longitudinal 2-year follow-up study based on the Swedish Heart Failure Registry** P447  
 C. Hjalmarsson, M. Fu, T. Zverkova-Sandstrom, M. Schaufelberger, C. Ljungman, E. Bollano, U. Dahlstrom, A. Rosengren (Gothenburg and Linkoping, SE)
- Diabetes increases long-term risk of new-onset heart failure and mortality in atrial fibrillation: impact of glycaemic control and diabetes treatment** P448  
 M. Polovina, I. Miliukovic, I. Veljic, D. Djikic, I. Petrovic-Djordjevic, V. Kovacevic, L. Vajagic, J. Simic, A. Pavlovic, G. Krljanac, M. Asanin, P.M. Seferovic (Belgrade, RS)
- Prognostic role of diabetes and of medium-term glycemic control in heart failure** P449  
 S. Paolillo, E. Salvioni, M. Mapelli, A. Bonomi, C. Vignati, G. Cattadori, F. De Martino, G. Sinagra, M. Piepoli, U. Corra, R. La Gioia, G. Limongelli, R. Badagliacca, P. Perrone Filardi, P. Agostoni (Naples, Milan, Trieste, Piacenza, Veruno, Cassano Murge and Rome, IT)
- A multicenter, randomized, parallel-group pilot study of patiomer in optimizing mineralocorticoid receptor antagonist therapy in hyperkalemic heart failure patients (CONTINUE-HF): study design** P450  
 M. Boehm, L. Bernard, C. Mori, B. Mueller, D. Fliser (Homburg and Bad Homburg, DE; Meyrin and Glattbrugg, CH)

## Posters Sessions

- Improving management of iron deficiency in patients with CHF: an online educational intervention** P451  
S. Mendly, J. Spyropoulos (London, GB)
- Contributing factors to anemia in acute decompensated heart failure patients with or without preserved ejection fraction** P452  
R. Horai, K. Sakane, S. Nakayama, D. Maeda, K. Akamatsu, K. Tsuda, M. Ozeki, T. Fujisaka, Y. Kanzaki, T. Ito, K. Sohmiya, M. Hoshiga (Osaka, JP)
- A comparison of the prognosis of heart failure during the use of Febuxostat and Allopurinol in patients with heart failure with chronic kidney disease** P453  
J.H. Heo (Busan, KR)

### ACUTE HEART FAILURE

- The significance of plasma osmolarity for in-hospital course and long-term outcome in patients with acute heart failure.** P454  
M. Sokolski, J.M. Sokolska, R. Zymliński, J. Biegus, K. Swoboda, P. Siwolowski, P. Gajewski, S. Nawrocka-Millward, W. Banasiak, P. Ponikowski (Wrocław, PL)
- Functional phenotyping of cardiac macrophages in patients with myocardial infarction: prospects for implementation to clinical practice** P455  
A. Gombozhapova, Y. Rogovskaya, M. Rebenkova, J. Kzhyshkowska, V. Ryabov (Tomsk, RU)
- T-lymphocytes and natural killers cells in patients with acute myocardial infarction complicated by acute heart failure** P456  
O.K. Lebedeva, G.A. Kukharchik (Saint-Petersburg, RU)
- Frequency and predictors of mortality in arrhythmia-induced cardiomyopathy: a diagnosis not to be missed** P457  
S. Alegria, A. Marques, A.R. Pereira, A. Briosa, D. Sebaiti, A.R. Almeida, R. Miranda, S. Almeida, L. Brandao, O. Simoes, H. Pereira (Almada, PT)
- Initial blood pressure variability in patients with acute heart failure is associated with increased rehospitalization** P458  
J.Y. Cho, K.H. Kim, H.Y. Kim, H. Park, H.J. Yoon, Y.J. Hong, H.W. Park, J.H. Kim, Y. Ahn, M.H. Jeong, J.G. Cho, J.C. Park (Gwangju, KR)
- Relationship between endothelial function, aortic stiffness, and ventricular-arterial interaction in patients with heart failure** P459  
J. Wi, S.M. Kang (Seoul, KR)
- Renal function and electrolyte assays in patients with heart failure - a comparison between patients with reduced and preserved ejection fraction** P460  
A.M. Vintila, M. Horumba, I. Bajenaru, I. Iordachescu, R. Ciomag, R. Siliste, D.V. Spataru, C. Tudorica, S. Tudorica, V. Vintila, D. Isacoff (Bucharest, RO)
- Both admission hypo- and hyper-glycemia are associated with increased 1-year mortality in patients with acute heart failure** P461  
E. Akiyama, R. Cinotti, A. Cohen-Solal, J. Lassus, O. Miro, A.P. Maggioni, C. Mueller, J. Parenica, J.J. Park, J. Spinar, N. Sato, K. Tamura, K. Kimura, E. Gayat, A. Mebazaa (Yokohama and Kawasaki, JP; Nantes and Paris, FR; Helsinki, FI; Barcelona, ES; Florence, IT; Basel, CH; Brno, CZ; Seoul, KR)
- Relationship between early drop 13.5% in systolic blood pressure, worsening renal function and long-term outcome in patients with acute heart failure** P462  
T. Kido, T. Okabe, J. Saitou, S. Shimazu, T. Kimura, Y. Oyama, W. Igawa, M. Ono, S. Ebara, K. Yamashita, M. Yamamoto, K. Amemiya, T. Yakushiji, N. Isomura, M. Ochiai (Yokohama, JP)
- Validation of radiofrequency determined lung water using thoracic CT: findings in acute decompensated heart failure Patients** P463  
C. Wheatley, P. Sajjalik, B.S. Cierzan, R.J. Wentz, B.L. Ziegler, B.D. Johnson (Rochester, US)
- Decongestion by bioimpedance analysis in patients hospitalized with decompensated heart failure depending on ejection fraction** P464  
O. Lukina, A. Soloveva, M. Bayarsaikhan, K. Gudieva, N. Soseliya, A. Metelkin, E. Troitskaya, S. Villevalde, Z. Kobalava (Moscow, RU)

## Posters Sessions

- Serum sodium and chloride levels in relation to congestion and outcomes in decompensated heart failure** P465  
 A. Soloveva, M. Bayarsaikhan, Y. Kurilyuk, S. Bondari, V. Nosova, V. Aleshin, S. Villevalde, Z. Kobalava (Moscow, RU)
- Diagnostic value of remote dielectric sensing (ReDS) technology to predict pulmonary congestion on computed tomography in consecutive patients with acute dyspnea** P466  
 A. Olesen, K. Miger, A. Fabricius-Bjerre, J. Wamberg, C. Mascmann, M.M. Wille, A.G. Abild-Nielsen, J. Nybing, L. Pedersen, H.H. Schultz, O.W. Nielsen (Copenhagen, DK)
- The reliability of Lung ultrasound and conventional X-ray in the stage differentiation of pulmonary congestion** P467  
 T. Valova, I.D. Ivailo Daskalov, L.D. Lilya Demirevska, K.R. Konstantin Ramshev (Sofia, BG)
- HeartLogic performs as well as NT-proBNP to rule out acute heart failure at point of care** P468  
 R.S. Gardner, D.G. Nair, G. Wen, P. Thakur, Q. An, J.P. Boehmer (Clydebank, GB; Jonesboro, Saint Paul and Hershey, US)
- The clinical significance of interleukin-6 in heart failure: results from the BIOSTAT-CHF study.** P469  
 G. Markousis-Mavrogenis, J. Tromp, W. Ouwerkerk, M. Devalaraja, G. Filippatos, P. Van Der Harst, H.L. Hillege, D.J. Van Veldhuisen, R. Kakkur, A.A. Voors, P. Van Der Meer (Groningen and Amsterdam, NL; Singapore, SG; Waltham, MA, US; Athens, GR)
- Liver stiffness assessed by fibrosis-4 index; noninvasive marker using serum biomarkers is associated with right ventricular function and cardiovascular prognosis in HFpEF** P470  
 M. Nakashima, S. Sakuragi, N. Kodera, T. Ida, T. Yamada, A. Mori, Y. Koide, T. Wada, K. Kawamoto, M. Tanakaya, Y. Katayama (Iwakuni, JP)
- The trajectory of biomarkers in patients with acute heart failure and atrial fibrillation** P471  
 O. Barnett, Y. Horiuchi, N. Wettersten, P. Murray, A. Maisel (Lviv, UA; San Diego, US; Dublin, IE)
- Prediction of 30-day readmission for Heart Failure by N-terminal pro-brain natriuretic peptides. Results of IMPEDANCE-HF extended trial** P472  
 M. Kleiner Shochat, D. Kapustin, M. Fudim, M. Kazatsker, Y. Levy, A. Asif, I. Kleiner, J.M. Weinstein, G. Panjrath, A. Roguin, S. Meisel (Hadera and Beer Sheva, IL; Toronto, CA; Durham and Washington, US)
- Catestatin serum levels are inversely associated with adverse structural and hemodynamic profile among patients with acutely decompensated heart failure: preliminary echocardiographic findings** P473  
 J.A. Borovac, J. Bozic, Z. Susilovic Grabovac, D. Supe Domic, T. Ticinovic Kurir, A. Bradaric, P.M. Zivkovic, M. Vilovic, K. Novak, D. Glavas (Split, HR)
- Acid-base balance disorders are markers of an increased overall mortality risk in patients with acute dyspnea** P474  
 D. Verikas, R. Kundelis, A. Rimkus, I.M. Saule, K. Cerlinskaite, D. Vaiciulienė, A. Mebazaa, A. Kavoliuniene, J. Celutkienė (Kaunas and Vilnius, LT; Paris, FR)
- Postoperative high-sensitivity troponin T as a predictor of sudden cardiac arrest in patients undergoing valve surgery** P475  
 P. Duchnowski, T. Hryniewiecki, M. Kusmierczyk, P. Szymanski (Warsaw, PL)
- Endocan and resolvin-D1 association with ventricular dysfunction, lactic acidosis and prognostic scores in human acute heart failure** P476  
 M. Reina Couto, J. Bessa, M. Oliveira-Santos, P. Serrao, J. Afonso, R. Roncon-Albuquerque, J. Artur Paiva, A. Albino-Teixeira, T. Sousa (Porto, PT)
- Thirty day and one-year risk stratification of Heart Failure Death According N-terminal pro-brain natriuretic peptide at discharge for Heart Failure hospitalization. Results of IMPEDANCE-HF extended** P477  
 M. Kleiner Shochat, D. Kapustin, M. Fudim, M. Kazatsker, I. Kleiner, J.M. Weinstein, G. Panjrath, A. Roguin, S. Meisel (Hadera and Beer Sheva, IL; Toronto, CA; Durham and Washington, US)
- Short-term prognostic role of galectin-3 in Vietnamese patients with acute heart failure** P478  
 T. Dang, H. Ta (Ho Chi Minh, VN)
- Coincidence or connection: cardiac sarcoidosis in a patient with multiple benign naevi on a background of suspected rare somatic mutation** P479  
 L.J. Eveson, A. Steriotis, V. Kouranos, R. Sharma (London, GB)

## Posters Sessions

### ACUTE HEART FAILURE - EPIDEMIOLOGY, PROGNOSIS, OUTCOME

- Mortality predictors, in the first 24 hours, in patients admitted in Non-cardiac Intensive Care Unit with Cardiogenic Shock** P480  
H. Miranda, I. Milet, N. Barros, H. Leite, I. Militao, F. Esteves (Lisboa and Vila Real, PT)
- Predictors of all-cause mortality in patients hospitalized for acute heart failure** P481  
A.M. Lupan, I.C. Daha, C. Delcea, G.A. Dan (Bucharest, RO)
- Seasonal variation in Takotsubo syndrome compared with myocardial infarction in Sweden: A report from the Swedish Angiography and Angioplasty Registry** P482  
E. Omerovic (Gothenburg, SE)
- Gender disparity in acute heart failure: insights from korean acute heart failure(KorAHF) registry** P483  
J.-H. Lee, D.-H. Bae, M. Kim, K.K. Hwang, M.-C. Cho (Cheongju, KR)
- Five year outcomes, India** P484  
S. Hari Krishnan, P. Jeemon, G. Sanjay, G. Vijayaraghavan, V. Sunitha, S. Madhu, C.G. Bahuleyan, R. Biju, T. Nair, P. Kumar, G. Krishnakumar, N. Rajalakshmi, K. Suresh (Trivandrum, IN)
- Clinical presentation, practice patterns and in-hospital mortality: findings from the Kerala heart failure registry (KHFR) of 5789 patients.** P485  
S. Hari Krishnan, A. Jabir, G. Sanjay, P. Jeemon, S.T.I.G.I. Joseph (Trivandrum, Kochi and Angmaly, IN)
- Prognostic impact of comorbidities on mortality and re-hospitalization in acute decompensated heart failure in real world clinical settings:Interim results from a multi-center longitudinal registry** P486  
P.B. Jayagopal, C.N. Manjunath, S. Sridhar, A. Jabir, N. Veena, P.R. Vaidyanathan, J. Johny, K. Nitin Kumar, K. Gopala Krishna, J. Narendra, K.S. Ravindranath, K.H. Srinivas, D. Ramesh, B.C. Srinivas (palakkad, Bangalore, Kochi, Mysore, Coimbatore, Kottayam, Hyderabad, Vijayawada and Shimoga, IN)
- Predictive factors for all cause mortality and readmissions at follow up for patients presented with acute decompensated heart failure.** P487  
H.B. Koh, S.S. Lim, J. Jaafar, M.S. Sulong, I.S. Sabian, S.H. Ong, K.L. Tan, T.J. Lee, R. Stanislaus, C.H. Thum, K.C. Teh, A. Roslan, A.A. Abdul Rahim, C.K. Teoh, A. Mohd Ghazi (Kuala Lumpur, MY)
- Urban rural comparisons in profiles, management, and outcomes for patients hospitalized for heart failure in china** P488  
B. Wang, X. Bai, X. Li, X. Zheng, F. Masoudi, H. Krumholz, J. Li (Beijing, CN; Aurora and New Haven, US)
- Patients with peripartum cardiomyopathy display a high incidence of subfertility and fertility treatments** P489  
M. List, T.J. Pfeffer, M. Ricke-Hoch, V. Abou-Moulig, D. Berliner, C. Schippert, J. Bauersachs, D. Hilfiker-Kleiner (Hannover, DE)
- Beta-blockers do not reduce cardiovascular events in patients with CAD and an LVEF > 40%: A propensity-score matched analysis of patients hospitalized for acute heart failure** P490  
C. Abi Khalil, K. Sulaiman, N. Asaad, K. Alhabib, A. Alsheikh-Ali, M. Jameesh, M. Al-Jarallah, B. Bulbanat, W. Almahmeed, H. Amin, A. Al-Motarreb, H. Alfaleh, P. Panduranga, Z. Mahfoud, J. Al Suwaidi (Doha, QA; Muscat, OM; Riyadh, SA; Dubai and Abu Dhabi, AE; Kuwait City, KW; Bahrain, BH; Sana'a, YE)
- Left atrial size and the risk of long-term all-cause mortality in patients with atrial fibrillation and heart failure** P491  
J.M. Ren, S. Wu, Y.M. Yang (Beijing, CN)
- Regional differences in the incidence and outcome of acute ischemic heart failure after ST-elevation myocardial infarction in Sweden** P492  
B. Redfors, S. Volz, O. Angeras, D. Ioanes, J. Odenstedt, C. Ljungman, C. Dworeck, T. Jernberg, J. Jensen, T. Ramunddal, P. Petursson, O. Frobert, S. James, D. Erlinge, E. Omerovic (Gothenburg, Stockholm, Orebro, Uppsala and Lund, SE)
- Comparing predictive factors for mortality between elderly and non elderly patients after an event of acute decompensated heart failure.** P493  
H.B. Koh, S.S. Lim, J. Jaafar, M.A. Sulong, I.S. Sabian, N. Jaafar, K.L. Tan, S.H. Ong, R. Stanislaus, C.H. Thum, K.C. Teh, T.W. Nay, A.A. Abdul Rahim, C.K. Teoh, A. Mohd Ghazi (Kuala Lumpur, MY)

## Posters Sessions

- Hyponatremia in acute heart failure** P494  
 H. Santos, I. Almeida, H. Miranda, M. Santos, C. Sousa, L. Almeida, J. Chin, S. Almeida, L. Santos, J. Tavares (Barreiro, PT)
- BAUN score, a predictive model of in-hospital mortality in acute heart failure** P495  
 J. Santos, G. Pereira, L. Goncalves, I. Pires, H. Antunes, E. Correia, L. Abreu, I. Almeida (Viseu, PT)
- Incidence and prognostic value of residual pulmonary congestion by clinical data and lung ultrasound in decompensated heart failure** P496  
 F. Cabello Montoya, A. Safarova, M. Bayarsaikhan, O. Lukina, Z. Kobalava (Moscow, RU)
- Impact of functional mitral regurgitation at discharge upon survival in patients with acute decompensated HFpEF, HFmrEF and HFrEF** P497  
 T. Castelein, M. Beles, M. Penicka, M. Goethals, S. Verstreken, R. Dierckx, W. Heggermont, J. Bartunek, M. Vanderheyden (Aalst, BE)

### CORONARY ARTERY DISEASE

- The antiplatelet therapy and pro-inflammatory cytokines with stable coronary artery disease: is there any connection?** P498  
 A. Vorobev, V.I. Ruzov, L.G. Komarova, A.S. Komarov (Ulyanovsk, RU)
- The prevalence of heart failure after acute coronary syndrome in patients with nonobstructive coronary atherosclerosis** P499  
 S.B. Gomboeva, V.V. Ryabov, A.E. Baev, Y.U.V. Rogovskaya (Tomsk, RU)
- Impact of different reperfusion strategies in primary myocardial infarction on microvascular obstruction and intramyocardial haemorrhage** P500  
 Y. Alekseeva, O.V. Mochula, E.V. Vyshlov, E.N. Pavlyukova, V.V. Ryabov, V.Y. Ussov, V.A. Markov (Tomsk, RU)
- Association of rs2891116 polymorphism in CDKN2B gene with the extent of myocardial injury and left ventricular ejection fraction in patients after ST elevation myocardial infarction.** P501  
 F.A. Magamedkerimova, F.A. Magamedkerimova, E.N. Ivantsov, N.R. Khasanov, M. Ibrahim (Kazan, RU)
- Gut microbiota and coronary artery disease - preliminary results** P502  
 E. Sawicka, M. Lapinska, M. Szpakowicz, Z. Stachurska, M. Paniczko, M. Puchalski, P. Lopienski, E. Tarasiuk, A. Szpakowicz, P. Sowa, M. Kwasniewski, M. Niemira, S. Dobrzycki, B. Sobkowicz, K.A. Kaminski (Bialystok, PL)
- Adiponectin and t-cadherin level in patients with coronary artery disease and heart failure.** P503  
 K.Y. Mikheeva, E.A. Polyakova, A.S. Draganova, D.A. Kolodina, O.A. Berkovich (Saint-Petersburg, RU)
- NT - proBNP - a marker of obstructive CAD in patients with HFpEF in sinus rhythm** P504  
 R. Tasheva, M. Grigorov, K. Vitlianova (Sofia and Montana, BG)
- The impact of short term amiodarone treatment on hsCRP level in patients with ischemic heart failure and paroxysmal atrial fibrillation** P506  
 A.I. Grosu, R.A. Mocan, E.C. Buzdugan, H. Rosianu, D. Pop (Cluj-Napoca, RO)
- Feasibility of single-photon emission computed tomography in the diagnosis of obstructive coronary artery lesions in stable coronary artery disease** P507  
 A. Sumin, E.V. Korok, A.A. Korotkevitch, E.N. Kachurina, A.N. Kokov, O.L. Barbarash (Kemerovo, RU)

### VALVULAR HEART DISEASE

- Edge-to-edge percutaneous mitral repair for functional ischemic and non-ischemic mitral regurgitation: a systematic review and meta-analysis.** P509  
 M. Chiarito, M. Pighi, D. Cao, F. Cannata, J. Sanz, F. Roccasalva, D. Pini, B. Reimers, P. Pagnotta, G. Condorelli, C. Di Mario, C. Grasso, C. Godino, G. Stefanini (Rozzano, Milan and Catania, IT; London, GB)
- Heart failure in aortic stenosis: extra-valvular cardiac damage according to the novel 2017 staging classification is differentially reflected by certain biomarkers of cardiovascular remodelling** P510  
 M. Franz, L. Baez, K. Gruen, S. Moebius-Winkler, A. Berndt, P.C. Schulze (Jena, DE)
- Response of right ventricular longitudinal and radial fiber contractility to mitral valve surgery: a PREPARE-MVR substudy** P511  
 B.K. Lakatos, M. Tokodi, Z. Toser, K.B. Koritsanszky, K. Racz, A.V. Soltesz, T. Varga, E. Kispal, B. Merkely, E. Nemeth, A. Kovacs (Budapest, HU; Dover, DE, US)

## Posters Sessions

- Cardiac filling pressures in left-sided valvular regurgitation** P512  
 J. Oehman (Turku, FI)
- Immediate changes on aortic hemodynamics and wave reflections after surgical aortic valve replacement** P513  
 E. Sigala, C. Vlachopoulos, C. Triantafyllos, N. Koumallos, V. Lozos, A. Katsaros, I. Kourerinis, N. Giakis, M. Demosthenous, D. Terentes-Printzios, K. Fillis, D. Tousoulis (Athens, GR)
- Evaluation of the relationship between platelet indices and spontaneous echo contrast in patients with mitral prosthetic heart valves** P514  
 M. Kalcik, A. Guner, E. Bayam, M. Yesin, S. Kalkan, M.O. Gursoy, S. Gunduz, S. Karakoyun, M. Ozkan (Corum, Istanbul, Istanbul, Kars, Izmir and Ardahan, TR)
- Congenitally unguarded pulmonary valve without annular stenosis in adults with heart failure** P515  
 M. Shukla, J. Mohan (New Delhi, IN)
- N-terminal of the prohormone brain natriuretic peptide is a predictor of hemodynamic instability in patients undergoing valve surgery** P516  
 P. Duchnowski, T. Hryniewiecki, M. Kusmierczyk, P. Szymanski (Warsaw, PL)

### MYOCARDIAL DISEASE

- Genetic spectrum of left ventricular non-compaction presented in children and adolescent.** P517  
 A. Muravyev, T. Vershinina, S.H. Karapetyan, O. Melnik, T. Loevetz, A. Kiselev, Y.U. Fomicheva, A. Kozryeva, T. Pervunina, E. Vasichkina, A. Kostareva (St. Petersburg, RU)
- Screening for transthyretin amyloid cardiomyopathy in everyday practice** P518  
 P. Garcia-Pavia, S. Bokhari, T. Damy, P. Elliott, N. Fine, M. Gospodinova, L. Obici, C. Rapezzi, R. Witteles (Madrid, ES; New York and Stanford, US; Paris, FR; London, GB; Calgary, CA; Sofia, BG; Pavia and Bologna, IT)
- The left ventricular noncompaction and hypertrabecularity in adult patients: clinical classification and follow-up** P519  
 E.V. Pavlenko, O.V. Blagova, A.V. Nedostup, V.P. Sedov, N.V. Gagarina, E.A. Mershina, M.E. Polyak, E.V. Zaklyazminskaya (Moscow, RU)
- Clinical spectrum and outcome of advanced heart failure in hypertrophic cardiomyopathy: from pathophysiology to contemporary unmet needs** P520  
 G. Galati, S. Zieroth, A. Di Lenarda, N. Aspromonte, I. Vranic, M. Gulizia, A. Margonato (Milan, Trieste, Rome and Catania, IT; Winnipeg, CA; Belgrade, RS)
- Echocardiographic deformation imaging improves assessment of structural disease progression in arrhythmogenic cardiomyopathy** P521  
 K. Taha, T.P. Mast, M.J.M. Cramer, J. Van Der Heijden, F.W. Asselbergs, P.A.F. Doevendans, A.J. Teske (Utrecht, NL)
- Evaluation of myocardial gene expression profiling for superior diagnosis of idiopathic giant cell myocarditis in a large cohort of patients with acute cardiac decompensation** P522  
 F. Escher, H.P. Pietsch, C.S. Siegismund, U.G. Gross, D.L. Lassner, H.P.S. Schultheiss (Berlin, DE)
- Plasminogen activator inhibitor type-1 (PAI-1) expression relates to the presence of myocardial inflammation in patients with nonischemic cardiomyopathy** P523  
 F. Escher, M.E. Agirbasli, D.L. Lassner, G.A. Aleshcheva, H.P.S. Schultheiss (Berlin, DE; Istanbul, TR)
- Prognostic values of new biomarkers in patients with AL amyloidosis** P524  
 D. Kim, J.O. Choi, K. Kim, S.J. Kim, E.S. Jeon (Seoul, KR)
- Nitric oxide and kinins system plasma levels in patients with chronic Chagas heart disease and systemic arterial hypertension** P525  
 R. Bestetti, R. Dellalibera-Joviliano, G. Lopes, R. Furlan-Daniel, M. Faria-Jr, K. Lopes, N. Lucif-Jr (Ribeirao Preto and Piumhi, BR)
- Late gadolinium enhancement at right ventricular insertion points, in subjects with structurally normal hearts, is prognostically irrelevant** P526  
 C. Grigoratos, A. Pantano, L. Ait-Ali, A. Barison, G. Todiere, P. Festa, G. Sinagra, M. Emdin, G.D. Aquaro (Pisa and Trieste, IT)

## Posters Sessions

### PULMONARY CIRCULATION, PULMONARY EMBOLISM, RIGHT HEART FAILURE

- Delayed diagnosis of Idiopathic Pulmonary Hypertension in woman with heart failure.** P527  
 Y. Varava, L.V. Sapozhnychenko, O.S. Kalashnykova, V.V. Panov, O.O. Khanyukov, L.I. Vasilyeva (Dnipropetrovsk, UA)
- Prevalence of adverse prognostic factors in pulmonary hypertension** P528  
 A. Lescano, A. Rossi, G. Sorasio, E. Besmalinovich, R. Caprini, C. Musante, M. Vergara, C. Miranda, J. Farina, R. Skena, G.D. G Dionisio (Buenos Aires, AR)
- Pulmonary arterial hypertension associated with corrected CHD vs Eisenmenger syndrome.** P529  
 T. Ivanova-Razumova, A.I. Baigalkanova, A. Janatkyzy, D.V. Gorbunov (Astana, KZ)
- Lactate predicts short-term mortality in acute pulmonary embolism more accurately than shock index and modified shock index.** P530  
 D. Roque, J.S. Simoes, D.F. Faria, H.F. Hilaryano, J.B. Ferreira, M.B. Beringuilho, C.M. Morais (Amadora, PT)
- SaO2/FiO2 ratio is associated to short-term outcome in acute pulmonary embolism** P531  
 D. Roque, J.S. Simoes, D. Faria, J.B. Ferreira, H.F. Hilaryano, M.B. Beringuilho, C.M. Morais (Amadora, PT)
- Pattern of anticoagulation therapies in pulmonary embolism in the current era of non antivitamin k anticoagulants (NOACs); experience of a tertiary emergency care hospital.** P532  
 A. Sturzu, A.M. Balahura, E. Weiss, E. Badila, D. Bartos (Bucharest, RO)
- Pre-hospital thrombolysis of high-risk pulmonary embolism- patient characteristics, management and outcome** P533  
 J. Harjola, P. Holmstrom, M. Kuisma, V.-P. Harjola (Helsinki, FI)
- Clinical and hemodynamic 5-year mortality predictors in patients with pulmonary hypertension** P534  
 A. Nunes Ferreira, R. Placido, T. Guimaraes, J.R. Agostinho, J. Rigueira, I. Aguiar-Ricardo, R. Santos, T. Rodrigues, P. Antonio, P.S. Morais, N. Cortez-Dias, A. Mineiro, S. Martins, N. Lousada, F.J. Pinto (Lisbon, PT)
- Acute hemodynamic effects of inhaled nitric oxide during right heart catheterization in cardiac transplant candidates with and without pulmonary hypertension** P536  
 C.M.F. Strong, L. Raposo, M. Castro, B. Rocha, C. Aguiar, A. Tralhao, M.J. Rebocho, A. Ventosa, M. Trabulo, J.P. Neves, M. Almeida, M. Mendes (Lisbon, PT)

### RISK FACTORS AND PREVENTION

- Asian Diabetes Outcome Prevention Trial (ADOPT)** P537  
 C. Chandramouli, S. Asali, S. Kassim, Z. Hussein, V. Chopra, J. Li, J. Zhang, L.J. Yan, C.Y. Wang, C.L. Hung, P. Dorairaj, Y.M. Bee, J. Yap, C.S.P. Lam (Singapore, SG; Selangor and Putrajaya, MY; Gurgaon and New Delhi, IN; Beijing and Jiangsu, CN; Taiwan, TW)
- Combined therapy with rosuvastatin and ezetimibe on inflammatory state and pro-inflammatory cytokines in patients with coronary heart disease and metabolic syndrome** P538  
 J.K. Uzokov, B.A. Alyavi, A.X. Abdullaev (Tashkent, UZ)
- Nesfatin-1 activity in hypertensive obese patients changes with the duration of hypertension** P539  
 M. Vizir (Kharkiv, UA)
- Anthropometric measurements of central adiposity are superior predictors of heart failure in the general population - data of PREVENT** P540  
 N. Suthahar, S.J.L. Bakker, R.T. Gansevoort, P. Van Der Harst, D.J. Van Veldhuisen, R.A. De Boer (Groningen, NL)
- The role of echocardiography in monitoring the therapeutic effect of levothyroxine replacement therapy in subclinical hypothyroidism** P541  
 M. Pandrc, A. Ristic, V. Kostovski, D. Vranes, V. Randjelovic-Krstic, J. Ciric (Belgrade, RS)
- Diabetes mellitus is a predictor of development of heart failure independent of HTN, CAD and diastolic function: a population based study** P542  
 H. Chen, M. Klajda, C. Scott (RochesterMn, US)
- The receptor for advanced glycation end products and its ligands modulate cardiovascular cell apoptosis in diabetic patients** P543  
 J. Tsoporis, E. Hatzigelaki, I. Rizos, S. Izhar, A. Tsiavou, V. Salpeas, T.G. Parker (Toronto, CA; Athens, GR)

## Posters Sessions

- Impact of antidiabetic treatment on mortality and heart failure readmissions: beyond hypoglycemic effect** P544  
 L. Rodriguez, A.M. Iniesta, L.A. Martinez, J.M. Garcia De Veas, J. Caro Codon, S.O. Rosillo, I. Marco, C. Merino, L. Martin, L. Pena Conde, O. Gonzalez, J.R. Rey, J.L. Lopez-Sendon (Madrid, ES)
- The incidence of the first onset diagnosed type 2 diabetes mellitus in patients with cardiovascular diseases** P545  
 V.V. Medovchshikov, N.B. Yeshniyazov, E.A. Tereshchenko, E.R. Khasanova, Z.D. Kobalava (Moscow, RU)
- Reduced coronary flow reserve is associated with impaired ventriculoarterial interaction in patients with obstructive sleep apnea** P546  
 H. Chung, J.M.L. Lee, J.S.W. Woo, J.B.K. Kim, S.J.K. Kim, S.K.R. Ryu, W.K. Kim, K.S.K. Kim, W.S.K. Kim (Seoul, KR)
- Ischemic preconditioning, a potential cardioprotective mechanism of sleep apnea during acute myocardial infarction** P547  
 O. Ludka, R. Stepanova, T. Kara, J. Spinar, P. Kala (Brno, CZ; Minnesota, US)
- Respiratory arousal index independently predicts the presence of hypertension in patients with obstructive sleep apnea rather than apnea-hypopnea index (AHI)** P548  
 H. Chung, J.M. Lee, R. Heo, J.S. Woo, J.B. Kim, S.J. Kim, Y.S. Byun, S.K. Ryu, W. Kim, W.S. Kim (Seoul, KR)
- The relation of obstructive sleep apnea syndrome with acute coronary syndromes** P549  
 S. Grigoriadis, A. Samaras, I. Vogiatzis, P. Stiropoulos (Veria and Alexandroupolis, GR)

### PHARMACOLOGY AND PHARMACOTHERAPY

- Proarrhythmia in CHF patients with atrial fibrillation undergoing rhythm control strategy: a retrospective study concerning paradoxical arrhythmias in different pharmacological subsets** P550  
 R. De Vecchis, C. Ariano, G. Di Biase, S. Soreca (Napoli, S. Giovanni Rotondo and Somma Vesuviana, IT)
- Rate control strategy but not transcatheter ablation improves mid-term clinical outcomes in CHF patients with a history of atrial fibrillation: a retrospective cohort study** P551  
 R. De Vecchis, C. Ariano, A. Fusco, S. Soreca (Napoli and S. Giovanni Rotondo, IT)
- Sacubitril valsartan in real life: tolerance, clinical evolution and remodeled long term** P552  
 C. Martin Dominguez, R. Bravo Marques, S. Lopez Tejero, A. Valle Alberca, F.E. Mesa Prado, E. Mariscal Lopez, F. Rivas Ruiz, N. Oliva Damaso, P.A. Chinchurreta Capote, C. Corona Barrio, J.R. Siles Rubio, E. Timonet Andreu, F. Ruiz Mateas, F. Torres Calvo (Marbella, ES)
- Security of neurohormonal blocking with sacubitril / valsartan, iSGLT2 and mineralocorticoid receptor antagonist in patients with heart failure with reduced ejection fraction and diabetes mellitus** P553  
 R. Bravo Marques, C. Martin Dominguez, S. Lopez Tejero, F.E. Mesa Prado, A. Valle Alberca, N. Oliva Damaso, F. Lopez Rodriguez, F. Rivas Ruiz, M.D. Garcia De Lucas, P.A. Chinchurreta Capote, C. Corona Barrio, E. Mariscal, J. Payan Lopez, F. Ruiz Mateas, F. Torres Calvo (Marbella, ES)
- Improvement of NT-proBNP and NYHA values in patients with HFrEF and Sacubitril/Valsartan treatment** P554  
 C. Goena, V. Escolar, A. Laskibar, C. Gomez, R. Natividad, A. Romero, M. Perez De Nanclares, I. Rilo, L. Quintas, I. Solla, G. Zugazabeitia, P. Gil, I. Rodriguez, I. Urreta, A. Lozano (Mendaro, Bilbao, Barakaldo, Galdakao, Vitoria and Donostia, ES)
- Long-term prognostic impact of beta-blocker prescription during hospitalization for acute myocardial infarction** P555  
 F.M. Fonseca Goncalves, J.P. Guimaraes, P.S. Mateus, J.I. Moreira (Vila Real, PT)
- Diabetic patients need higher loop diuretic doses: a report on acute and chronic heart failure patients** P556  
 F.M. Cunha, J. Pereira, P. Marques, A. Ribeiro, P. Bettencourt, P. Lourenco (Penafiel and Porto, PT)
- Progression of markers of cardiac structure and function in the Personalised prospective comparison of ARni with ArB in patients with natriuretic peptide eLevation (PARABLE) clinical trial** P557  
 M. Ledwidge, F. Ryan, C. Watson, J. Gallagher, R. Pharithi, M. Ferre, D. Murphy, M. Barrett, J. Dodd, K.M. Mcdonald (Dublin, IE)
- Comparative efficacy of renin-angiotensin aldosterone system modulators and angiotensin receptor neprilysin inhibitor in chronic heart failure with mid-ranged and preserved ejection fraction** P558  
 L.R. Tumasyan, K.G. Adamyan, A.L. Chilingaryan, L.G. Tunyan, V.A. Mkrtchyan (Yerevan, AM)



## Posters Sessions

- Combined therapy with angiotension receptor-neprilysin inhibitor and sodium-glucose transport protein 2 inhibitors, a real life register data** P559  
 M. Singh, M. Galvan Ruiz, M. Sanmamed Giron, M. Groba Marco, M. Lopez Perez, C. Camacho Godoy, B. Hernandez Meneses, J. Medina Suarez, D. Rua-Figueroa Erausquin, P. Bujanda Morun, P. Pena Ortega, V. Quevedo Nelson, H. Mendoza Lemes, E. Caballero Dorta, A. Garcia Quintana (Las Palmas De Gran Canaria, ES)
- Long-term treatment with inotersen and potential improvement of amyloid transthyretin cardiomyopathy** P560  
 N.R. Dasgupta, M.D. Benson (Indianapolis, US)
- Impact of serum levels variability of calcineurin inhibitors on heart transplant outcomes** P561  
 F.J. Gonzalez-Vilchez, M.G. Crespo-Leiro, J.F. Delgado-Jimenez, F. Perez-Villa, J. Segovia-Cubero, J.L. Lambert-Rodriguez, E. Roig-Minguell, J.M. Arizon Del Prado, T. Blasco-Peiro, M.G. Martinez Selles, L. Almenar-Bonet, I. Garrido-Bravo, G. Rabago-Juan Aracil, J.A. Vazquez De Prada (Santander, A Coruña, Madrid, Barcelona, Oviedo, Cordoba, Zaragoza, Valencia, Murcia and Pamplona, ES)
- Sacubitril/Valsartan and SGLT2i: a safe combination?** P562  
 C. Goena, R. Natividad, I. Rilo, C. Gomez, M. Perez De Nanclares, A. Lozano, L. Quintas, G. Zugazabaitia, I. Solla, V. Escolar, I. Rodriguez, P. Gil, A. Laskibar, I. Urreta, A. Romero (Mendaro, Barakaldo, Donostia, Vitoria, Bilbao and Galdakao, ES)

### E-CARDIOLOGY / DIGITAL HEALTH

- Method of the logistic regression analysis in forecasting of development of atrial fibrillation** P563  
 A. Chernova, S. Nikulina, A. Kuskaeva (Krasnoyarsk, RU)
- Numerous published biomarker prognostic models for heart failure exist, but none is officially recommended in clinical guidelines: a paradox or a research scandal/failure?** P564  
 N.P.E. Kadoglou, M. Vazquez-Montes, K. Taylor, R. Perera, B. Speich, C.J. Taylor, T. Debray, G. Collins, F.D.R. Hobbs, K. Moons, N. Roberts, J. Parissis, M. Trivella (Oxford, GB; Utrecht, NL; Athens, GR)
- Advancements of artificial intelligence in the management of heart failure in a clinical setting** P565  
 D. Radenkovic, M. Majeed, M. El-Taher (London, GB)
- Guideline recommended therapies in HFrEF, online medical education improves cardiologists' knowledge and competence** P566  
 L. Thevathasan, R. Miller, N. Ashley, P. Schoonheim (Paris, FR; New York, US)
- Reduction of potentially preventable hospitalization rates with a multidisciplinary program of heart failure** P567  
 J.S.M. Seller Moya, H.M.C. Morillas Climent, A.V.L. Vicedo Lopez, E.M.J. Galcera Jornet, E.A.T. Alania Torres, Y.R.P. Rodriguez Pichardo, A.L.R. Larumbe Rodriguez, C.N.P. Nunez Piles, A.V.M. Valle Munoz (Denia and Alzira, ES)
- Optimising guideline recommended medical therapy for heart failure, impact of medical education on cardiologists knowledge and competence using case simulations** P568  
 L. Thevathasan, R. Miller, N. Ashley, P. Schoonheim (Paris, FR; New York, US)
- Key changes to the 2016 European heart failure guidelines, effect of medical education on cardiologist knowledge** P569  
 L. Thevathasan, R. Miller, N. Ashley, P. Schoonheim (Paris, FR; New York, US)
- Noninvasive monitoring of fluid status and blood flow by interrogating a major vessel** P570  
 D.J. Kuraguntla, S. Gupta (South San Francisco, US)
- The correlation analysis of polymorphisms system renin-angiotensin-aldosterone system with development of atrial fibrillation** P571  
 A. Chernova, S. Nikulina, A. Kuskaeva (Krasnoyarsk, RU)

## Posters Sessions

### BASIC SCIENCE

- Swallow syncope: a review of the current evidences** P572  
K. Siew, M.P. Tan, I. Hilmi, A. Loch (Kuala Lumpur, MY)
- Lifestyles as risk for cardiovascular diseases in medical students** P573  
V. Smiljic (Kosovska Mitrovica, RS)
- Quality of life in patients with transthyretin amyloidosis accompanied by congestive heart failure** P574  
A. Lovley, A. Sikora Kessler, A. Yarlac, S.D. Guthrie, M. Pollock, M.K. White, K.L. Mccausland (Johnston and Boston, US)
- The definition of left bundle branch block and non-specific intraventricular conduction delay influences long-term mortality in the general population: the health 2000 survey** P575  
J. Rankinen, P. Haataja, H. Huhtala, L.P. Lyytikainen, T. Lehtimäki, M. Kahonen, M. Eskola, J. Hernesniemi, A.R. Perez-Riera, A. Jula, K. Nikus (Tampere and Helsinki, FI; Sao Paulo, BR)
- Evolution of diastolic dysfunction of patients with acquired heart diseases in the postoperative period** P576  
I.I. Averina, O.L. Bockeria, M.Y. Mironenko (Moscow, RU)
- Correlation between the occurrence of cardiac arrhythmias and symptoms of heart failure in pregnant women with underweight** P577  
S. Hisamo, A. Prystrom, E. Gaishun (Minsk, BY)
- CHA2DS2-VASc score and B-type natriuretic peptide in predicting stroke, transient ischemic attack, thromboembolism and death in at-risk patients without atrial fibrillation-the STOP-HF experience** P578  
B. Kerr, K. McDonald, M. Ledwidge, C. Watson, J. Gallagher (Dublin, IE)
- Genetic screening of patients with non-compact cardiomyopathy using next generation sequencing** P579  
B. Csanyi, V. Nagy, J. Borbas, A. Tringer, L. Hategan, A. Borbely, R. Faludi, N. Nyolczas, Z. Hegedus, I. Nagy, T. Forster, R. Sepp (Szeged, Debrecen, Pecs and Budapest, HU)
- It's not so rare to have a rare disease- single centre experience with wild type transthyretin amyloid cardiomyopathy** P580  
M. Gawor, A. Sioma, Ł. Mazurkiewicz, P. Michalek, M. Marczak, A. Teresinska, J. Grzybowski (Warsaw, PL)
- Expanding the phenotype of loss-of-function mutations in the PPP1R13L gene causing paediatric dilated cardiomyopathy** P581  
E. Zaklyazminskaya, I. Povolotskaya, H. Robinson, C.L. Turner, Y. Surikova, C. Armstrong, M.R. Chrisant, P.J. Benke, K. Mcwalter, G. Douglas, M. Balashova, V. Kaimonov, N. Shirokova, E. Pomerantseva, S. Ellard (Moscow, RU; Exeter and Bristol, GB; Hollywood and Gaithersburg, US)
- CD68+ and M2 macrophage infiltration in the human brain following myocardial infarction** P582  
B. Kim, A. Gombozhapova, M. Rebenkova, Y. Rogovskaya, Y. Prohorova, Y. Kzhyskowska, V. Ryabov (Tomsk, RU)
- Circulating pro-inflammatory intermediate monocytes relate to right ventricular pressure in heart failure of adult congenital heart disease** P583  
L.M. Wienecke, D. Fraccarollo, P. Galuppo, F. Kockelmann, J. Treptau, J. Bauersachs, M. Westhoff-Bleck (Hannover, DE)
- Acute heart failure study biomarker sub study** P584  
S. Das, S. Vashista, K. Adlakhia, R. Chakraborty, M. Chadar, S. Sengupta, S. Seth (New Delhi, IN)
- Association between NT-proBNP and common carotid artery intima-media thickness in young healthy adults** P585  
A.G. Sorokina, A. Alexandrova, E. Borisov, Y. Orlova, I. Strazhesko (Moscow, RU)
- Alterations of serum metabolites in patients with endothelium dysfunction associated with cardiovascular diseases.** P586  
M. Kozhevnikova, E.O. Korobkova, A.V. Kuharenko, N.E. Moskaleva, E.V. Larcova, S.A. Appolonova, I.S. Ilgisonis, G.A. Shakaryants, E.V. Privalova, Y.U.N. Belenkov (Moscow, RU)

## Posters Sessions

### CLINICAL CASES

- A rare case of atrial septal defect with mitral valve papillary fibroelastoma** P587  
A. Filias, D. Stathopoulou (Patras, GR)
- Belated diagnosis of non-ischemic dilated cardiomyopathy in a patient with previous bypass surgery** P588  
M.A. Bazmpani, G. Tziatzios, D. Konstantinou, H. Karvounis, T. Karamitsos (Thessaloniki, GR)
- Successful percutaneous transcatheter closure of a prosthetic mitral paravalvular leak causing heart failure** P589  
R. Gal, G. Fontos, A. Temesvari, M. Vertesaljai, L. Ablonczy, B. Magyari, J. Keller, L. Toth, K. Toth, T. Habon (Pecs and Budapest, HU)
- Significant reduction of insulin dose after administration of sacubitril/valsartan in the patient with heart failure due to dilated cardiomyopathy, a case report.** P590  
M. Hegarova, I. Malek, V. Melenovsky, J. Kautzner (Prague, CZ)
- Have we found the Holy Grail in Heart failure with reduced ejection fraction? - First experiences with sacubitril/valsartan among heart transplant candidates** P591  
B. Muk, D. Vagany, P. Bogyi, D. Pilecky, Z.S. Majoros, M. Dekany, T. Borsanyi, B. Polgar, K. Kosa, E. Szogi, I. Juhasz, L.C.S. Nyeki, R.G. Kiss, N. Nyolczas (Budapest, HU; Passau, DE)
- Reversible left bundle branch block after sacubitril/valsartan in patient with severe heart failure** P592  
P.L. Lin, Y.M. Liu, Y.H. Lee (Taipei, TW)
- Reversal of pulmonary hypertension with sacubitril-valsartan in a candidate to heart transplantation.** P593  
D. Cocco, G. Garau, D. Pasqualucci, N. Sanna, P.P. Orru, M. Corda, M. Porcu (Cagliari, IT)
- Familial cardiomyopathy with a high risk of sudden cardiac death** P594  
L. Gaztanaga Arantzamendi, C. Asla Ormaza, E. Zamarrero Golvano, A. Elorriaga Madariaga, A. Arregui Lopez, A. Andres Morist, P.M. Mendoza Cuartero, I. Bravo Martinez, G. Aurrekoetxea Bajeneta, R. Saez Moreno (Bilbao, ES)
- Early paradoxical steroid induced ventricular tachycardia in cardiac sarcoidosis** P595  
C. Mccune, L. Dixon (Belfast, GB)
- His bundle pacing, an alternative to CRT? Our first experience** P596  
F. Malek, N. Chovanec, J. Petru, L. Sediva, J. Skoda, L. Dujka, P. Hala, K. Koscova, P. Neuzil (Prague, CZ)
- Sudden cardiac death in a patient with complicated peripartum cardiomyopathy and long QT syndrome** P597  
E. Reznik, Y.P. Yamka, S.N. Avdeykin, S.V. Borisovskaya, L.V. Brylev, T.M. Padzheva, O.A. Ettinger, I.G. Nikitin (Moscow, RU)
- Prosthetic mitral valve thrombosis during extracorporeal membrane oxygenation treated with functional closing of aortic valve** P598  
G. Spitaleri, J.M. Dominguez, B. Keller, S. Vazquez, M.A. Castel, M. Farrero Torres, F. Perez Villa (Barcelona, ES)
- High-dose insulin therapy of acute heart failure during left ventricular reconstruction surgery** P599  
E.V. Dzybinskaya, E. Vlasova, R.S. Akchurin (Moscow, RU)
- A rupture of cardiac pseudoaneurysm - Devastating complication** P600  
D. Balkute, G. Burneikaite, B. Petrauskiene (Vilnius, LT)
- Additional LV systolic functional recovery after PVC ablation in a peripartum cardiomyopathy patient** P601  
S. Vanhentenrijk, D. Dilling-Boer, O. Ghekiere, P. Koopman, P. Timmermans Jr (Hasselt, BE)
- A case of cardiomyopathy with severe reversible systolic dysfunction** P602  
C. Acatrinei, O. Fronea, S. Onciul, D. Zamfir, M. Dorobantu (Bucharest, RO)
- Hypertensive hypertrophic cardiomyopathy with low ejection fraction.** P603  
M. Siarkos, P. Giannakopoulou, N. Gouliaros, E. Eykarpidis, I. Zarifis (Thessaloniki, GR)
- The great masquerader strikes again: cardiac sarcoid, an unusual cause of sudden cardiac arrest in a 37 year old athlete** P604  
C. Mccune, O. King, L. Dixon (Belfast, GB)
- Left anterior fascicular ventricular tachycardia induced stress-induced cardiomyopathy** P605  
S.H. Seol, Y.J. Song, D.K. Kim, S. Kim, K.H. Kim, D.I. Kim (Busan, KR)
- Pulmonary edema following acute ischemic stroke** P606  
I. Bravo Martinez, A. Elorriaga, A. Arregui, G. Aurrekoetxea, P. Mendoza, C. Asla, A. Andres, J.R. Saez (Bilbao, ES)

## Posters Sessions

<b>A case of systemic lupus erythematosus myopericarditis</b> T.H. Phan (Ho Chi Minh City, VN)	P607
<b>Systemic lupus erythematosus initially presented as acute heart failure</b> C.S. Park, A.M. Gwon, G.H. Kim, J.S. Cho, H.J. Youn (Seoul, KR)	P608
<b>A young lady's fight or flight during the cardiogenic shocking</b> Y. Wang, H.W. Fei, Z.Z. Su (Guangzhou and Jiangmen, CN)	P609
<b>Myocarditis as a cause of reversible dilated cardiomyopathy</b> G. Aurrekoetxea Bajeñeta, P.M. Mendoza Cuartero, I. Bravo Martinez, C. Asla Ormaza, M. Castellanos Alcalde, A. Andres Morist, A. Arregui Lopez, A. Elorriaga Madariaga, R. Saez Moreno (Bilbao, ES)	P610
<b>A case of arrhythmogenic right ventricular cardiomyopathy</b> T.H. Phan (Ho Chi Minh City, VN)	P611
<b>Case of dual mechanism for tacotsubo cardiomyopathy (ttc) (migraine and ergothamine toxicity), presented with atrial fibrillation and tachycardia induced systolic dysfunction</b> T. Boneva, L. Vladimirova, K. Karamfilov, R. Ivanova, M. Shumkova, K.T. Stoyanova, G. Zlatancheva, T. Yaneva Sirakova, P. Dunev, N. Mileva, D. Vassilev (Sofia, BG)	P612
<b>Left ventricular involvement in arrhythmogenic right ventricular cardiomyopathy assessed by cardiac magnetic resonance imaging: a case report</b> H. Sisakian, S. Pepoyan, A. Barkhudaryan, Z. Kartoyan (Yerevan, AM)	P613
<b>A case of cardiac fibroma</b> T.H. Phan (Ho Chi Minh City, VN)	P614
<b>Role of cardiac resynchronization therapy in optimizing the recovery of left ventricular function in a patient with peripartum cardiomyopathy and left bundle branch block</b> H.A. Farhan, G.F. Haji, G.M. Mahmood, I.F. Yaseen (Baghdad, IQ)	P615

### BASIC SCIENCE- METABOLISM

<b>Basic Science - Metabolism - Poster Discussant - 10:00-11:00.</b> Jean-Luc Balligand (Brussels, BE)	P616
<b>The pineal hormone melatonin inhibits doxorubicin-induced mitochondrial dysfunction and apoptosis in cardiomyocytes</b> T. Kasi Ganeshan, J.D. Bell, N.W. Chong (London, GB)	P617
<b>Reactivation of fetal gene program, cardiomyocyte dedifferentiation and hypertrophy in heart failure</b> T. Kulikova, O. Stepanova, A. Voronova, M. Valikhov, I. Zhironov, V. Masenko, A. Samko, S. Tereshchenko (Moscow, RU)	P618
<b>The interplay between glucocorticoids and Neuregulin-1 signalling in cardiomyocyte proliferation and heart regeneration</b> N. Pianca, F. Pontis, A. Aharonov, C. Bongiovanni, M. Mazzeschi, M. Lauriola, E. Tzahor, G.D.uva (Milan and Bologna, IT; Rehovot, IL)	P619
<b>Desmin s head domain is important for interaction with mitochondrial and lysosomal proteins: implications for cardiomyopathy</b> K. Tsilafakis, D. Vlachakis, I. Kostavasili, S. Kossida, M. Mavroidis (Athens, GR; Montpellier, FR)	P620
<b>The novel butyrate derivative phenylalanine-butylamide protects from doxorubicin-induced cardiotoxicity</b> M. Russo, F. Guida, L. Paparo, G. Trinchese, C. Avagliano, F. Napolitano, V. Sala, M. Li, A. Ghigo, D. Sorriento, P. Abete, D. Bonaduce, A. Calignano, R.B. Canani, C.G. Tocchetti (Naples and Turin, IT)	P621
<b>Catalpol ameliorates neointimal hyperplasia in streptozotocin induced diabetic rats</b> C.-M. Lin, K.-G. Shyu, B.-W. Wang (Taipei, TW)	P622
<b>Resveratrol and sacubitril/valsartan reduce cardiac oxidative stress, inflammation and fibrosis in myocardial infarction induced rats</b> P. Raj, L. Yu, J. Wigle, T. Neticadan, S. Zieroth (Winnipeg, CA)	P623

## Posters Sessions

- Parathyroid hormone causes endothelial dysfunction by inducing mitochondrial ROS and specific oxidant signal transduction modifications P624  
 J. Gambardella, M. De Rosa, D. Sorriento, N. Prevette, A. Fiordelisi, M. Ciccarelli, B. Trimarco, N. De Luca, G. Iaccarino (Naples and Salerno, IT)

### BASIC SCIENCE - HFPEF AND PULMONARY HYPERTENSION

- Basic Science - HFpEF and Pulmonary Hypertension - Poster Discussant - 10:00-11:00. P625  
 Michele Senni (Bergamo, IT)

- Increasing the intensity of preconditioning training reduces the systolic right ventricle pressure in the heart of rats with pulmonary hypertension P626  
 N. Medvedeva, N. Pankova, M. Artemieva (Moscow, RU)

- Protective effects of soluble ubiquinol in monocrotaline model of pulmonary hypertension in rats P627  
 O. Medvedev, S. Abdullaev, T. Kuropatkina, M. Artemieva, N. Medvedeva (Moscow, RU)

- In the sugen/hypoxia model of pulmonary arterial hypertension in mice, abrogation of S100A1 exacerbates right ventricular dilation and fetal gene expression P628  
 J. Tsoporis, K. Teichert-Kuliszewska, J.F. Desjardins, S. Izhar, T.G. Parker (Toronto, CA)

- Impact of sympathectomy upon myocardium P629  
 F. Pessoa, M.R. Jordao, K.C.B. Fonseca, F. Zanoni, V.M.C. Salemi, O.N. Ribeiro, L.E. Souza, F. Fernandes, M.C. Irigoyen, L.F.P. Moreira, C. Mady, F.J.A. Ramires (Sao Paulo, BR)

- Pulmonary infarction in acute pulmonary embolism: a sign of poor prognosis? P630  
 J. Santos, G. Pereira, H. Antunes, L. Abreu, I. Pires, L. Goncalves, I. Almeida, E. Correia (Viseu, PT)

- Inhibition of the pro-inflammatory neutrophil mediator S100A8/A9 alleviates heart failure development post-myocardial infarction P631  
 A. Schiopu, G. Marinkovic, L. Decamp, L. Winkler, R. Mares, I.A. Szabo, I. Goncalves, I. Nilsson, S. Jovinge (Lund and Malmo, SE; Grand Rapids, US; Tirgu-Mures, RO)

- Sleep-disordered breathing is associated with ventricular arrhythmias in postmenopausal women with hypertension and coronary artery disease. P632  
 V. Tsareva, N. Novitskii, K. Sundukova (Smolensk and Kaluga, RU)

- Effects of early vs. late initiated pressure unloading on myocardial reverse remodeling and recovery of cardiac dysfunction in a rat model of left ventricular hypertrophy induced by pressure overload P633  
 T. Radovits, M. Ruppert, S. Korkmaz-Icoz, S. Loganathan, A. Olah, A.A. Sayour, B.A. Barta, C. Karime, G. Szabo, B. Merkely (Budapest, HU; Heidelberg, DE)

- Dapagliflozin improves diastolic performance in an animal model of heart failure with preserved ejection fraction P634  
 D. Cappetta, K. Urbanek, L.P. Ciuffreda, A. Cozzolino, A. Micciche', R. Coppini, L. Berrino, A. De Angelis (Naples and Florence, IT)

- Cholesterol-lowering gene therapy prevents HFpEF in obese type 2 diabetic mice P635  
 J.P. Aboumsallem, I. Muthuramu, M. Mishra, B. De Geest (Leuven, BE)

- Reconstituted HDL reverses pathological remodeling and cardiac dysfunction in a murine model of HFpEF associated with hypertension P636  
 M. Mishra, I. Muthuramu, J.P. Aboumsallem, H. Kempen, B. De Geest (Leuven, BE; Zürich, CH)

- Plasma proteome analysis of patients with heart failure identifies HFmrEF with unimproved EF as an intermediate state between HFpEF and HFrfEF, HFmrEF with improved EF as a distinct biological state P637  
 L. Adamo, J. Yu, R. Head, D.L. Mann (St. Louis, US)



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## Morning Sessions

08:30 - 10:00

YOUNG INVESTIGATOR AWARD ABSTRACTS

AGORA 2

### Young Investigator Award - Clinical



Chairperson(s): M. Jessup (Hingham, US); M. Komajda (Paris, FR)  
 Judge(s): D. Fitzsimons (Belfast, GB); J. Bax (Leiden, NL); C. Tsioufis (Athens, GR)

08:30	<b>Heart preservation with the organ care system for mechanical circulatory support recipients</b>	638
	Z. Nurmykhametova, R. Kaliyev, S. Bekbossynov, M. Bekbossynova, N. Smagulov, S. Novikova, L. Faizov, Z. Ashirov, Y. Pya (Astana, KZ)	
08:45	<b>Donor-recipient size-mismatching by predicted heart mass and survival after heart transplantation.</b>	639
	C. Cheshire, N. Nerlekar, A.C. Kydd, Y. Abu-Omar, P. Catarino, A.J. Brown, J. Parameshwar, S. Pettit (Cambridge, GB; Melbourne, AU)	
09:00	<b>Heart failure from cardiac ATTR-amyloidosis is a highly malignant disease</b>	640
	A. Kaser, F. Kocher, A. Bair, E. Vikoler, S. Dengler, R. Bernardi, M. Klassnitz, J. Doerler, M.M. Zaruba, C. Mussner-Seeber, G. Poelzl (Innsbruck, AT)	
09:15	<b>Effect of SGLT2 inhibitor on cardiac function in diabetic patients with or without heart failure: an echocardiographic study</b>	641
	I.C. Hwang, G.Y. Cho, Y.E. Yoon, J.J. Park (Seongnam, KR)	
09:30	<b>Splanchnic nerve blockade in chronic heart failure (Splanchnic HF-2)</b>	642
	M. Fudim, R.L. Boortz-Marx, A. Ganesh, A.D. Devore, C. Patel, J.G. Rogers, A. Coburn, B. Coyne, C. Green, G.M. Felker, S. Russell, S. Jones, A.F. Hernandez, M.R. Patel (Durham, US)	
09:45	<b>cmR Pulmonary transit time has additional prognostic value over cmR-RVEF and estimated systolic pulmonary artery pressure in predicting outcomes in Hf-rEF</b>	643
	L. Houard, H. Langet, M.F. Rousseau, J.L. Vanoverschelde, A.C. Pouleur, B.L. Gerber (Brussels, BE; Paris, FR)	

08:30 - 10:00

SPECIAL SESSION

TRIANTI

### Late breaking trial II - Chronic heart failure



Chairperson(s): G.M.C. Rosano (London, GB); M. Metra (Brescia, IT)

08:30 - 10:00

SYMPOSIUM

LAMBRAKIS

### Emerging treatment options in HFpEF

Chairperson(s): C.S. Lam (Singapore, SG); K. Swedberg (Goteborg, SE)

08:30	<b>Mineralocorticoid receptor antagonist.</b>	650
	L. Lund (Stockholm, SE)	
08:45	<b>Sacubitril/Valsartan.</b>	651
	S. Solomon (Boston, US)	
09:00	<b>sGC stimulators.</b>	652
	B. Pieske (Berlin, DE)	
09:15	<b>Interatrial shunt</b>	653
	W. Abraham (Columbus, US)	
09:30	<b>SGLT-2 inhibitors.</b>	654
	P. Seferovic (Belgrade, RS)	
09:45	<b>Intravenous iron.</b>	655
	S. Von Haehling (Berlin, DE)	

## Morning Sessions

08:30 - 10:00

CLINICAL CASES

IONIAN SEA

### Clinical dilemmas in the treatment of comorbidities in heart failure



MOBILE APP  
SESSION

Chairperson(s): T. McDonagh (London, GB); A. Voors (Groningen, NL)

08:30	<b>Atrial fibrillation.</b> D. Atar (Oslo, NO)	656
08:48	<b>Diabetes and metabolic disorders.</b> J. Seferovic (Cambridge, US)	657
09:06	<b>Chronic pulmonary disease.</b> M. Lainscak (Murska Sobota, SI)	658
09:24	<b>Liver and gut dysfunction.</b> M. Nikolaou (Athens, GR)	659
09:42	<b>Cancer.</b> M. Anker (Berlin, DE)	660

08:30 - 10:00

SYMPOSIUM

MITROPOULOS

### Functional mitral regurgitation: the road ahead.

Chairperson(s): A. Coats (Coventry, GB); S. Anker (Berlin, DE)

08:30	<b>Transcatheter mitral interventions: indications and controversies.</b> P. Ponikowski (Wroclaw, PL)	661
08:45	<b>MITRA-FR trial: facts and perspectives.</b> N. Mewton (Bron, FR)	662
09:00	<b>What can we learn from COAPT trial?</b> J. Lindenfeld (Nashville, US)	663
09:15	<b>Therapeutic synergy between drugs, devices and interventions.</b> F. Ruschitzka (Zurich, CH)	665
09:30	<b>Panel discussion: the road ahead.</b>	666

08:30 - 10:00

SYMPOSIUM

SKALKOTAS

### Valve disease in Heart Failure patients



LOCAL  
TRACK

Chairperson(s): J.A. Goudevenos (Ioannina, GR); P. Nihoyannopoulos (London, GB)

08:30	<b>Mitral insufficiency. Who is the right patient to send for intervention?</b> A. Patrianakos (Heraklion, GR)	667
08:52	<b>Mitral insufficiency. When too late to intervene?</b> F.J. Pinto (Lisbon, PT)	668
09:15	<b>Low flow aortic stenosis in heart failure. How to interpret</b> E. Vavouranakis (Anoixi, GR)	669
09:37	<b>Tricuspid regurgitation. Is there any place for intervention?</b> K. Spargias (Athens, GR)	670

## Morning Sessions

08:30 - 10:00

SYMPOSIUM

AEGEAN SEA

### Myocarditis: a multi-facet disease.

Chairperson(s): G. Filippatos (Athens, GR); D. Carnevale (Pozzilli (Is), IT)

Basic Science - Translational

08:30	Clinics of myocarditis. L. Cooper (Jacksonville, US)	671
08:48	Basic immune mechanisms in myocarditis. F. Marelli-Berg (London, GB)	672
09:06	Imaging of myocarditis. R. Manka (Zurich, CH)	673
09:24	Myocarditis in hypertension and end-organ damage. T. Guzik (Glasgow, GB)	674
09:42	Panel discussion. H. Sager (Munich, DE)	

10:00 - 11:00

CLINICAL CASE POSTERS

MODERATED POSTER AREA

### Clinical Case Corner 2 - A story of success. Recovering in heart failure

Chairperson(s): E. Omerovic (Gothenburg, SE); G. Vergaro (Pisa, IT)

10:00	Recovery of heart failure due to severe malnutrition and marked electrolyte abnormalities. E. Pereyra, R. Bascompte-Claret, F. Werner-Diz, P. Pastor-Pueyo, A. Aldoma-Balasc, A. Bosch-Gaya, M. Zielonka, L. Matute-Blanco, I. Calaf-Vall, N. Pueyo-Balsells (Lleida, ES)	676
10:06	Carbon monoxide induced cardiomyopathy: a rare cause of Takotsubo syndrome I. Michelis, K. Tsitlakidis, C. Tsakliadou, A. Angelopoulos, P. Papanikolaou, N. Kouvelas (Athens, GR)	677
10:12	Bilateral pheochromocytoma presenting with inverted takotsubo cardiomyopathy and cardiogenic shock B. Faria, J. Portuques, R. Roncon, R. Pimentel, O. Azevedo, M. Oliveira, P. Hafe, G. Dias, F. Cardoso, S. Ribeiro, A. Lourenco (Guimaraes and Porto, PT)	678
10:18	I am hurt, but I will be okay- An unusual case of reversible heart failure K.L. Tan, A.A. Nuruddin (Kuala Lumpur, MY)	679
10:24	A tricky case of rapid ejection fraction improvement in patient with preeclampsia and peripartum cardiomyopathy complicated by subsequent heart failure readmissions S. Bondari, A. Soloveva, M. Teterina, L. Babaeva, I. Meray, A. Safarova, Z. Kobalava (Moscow, RU)	680
10:30	Atypical HUS associated cardiomyopathy and its recovery on warfarin in a hemodialysis patient M. Poltavskaya, N. Kozlovskaya, E. Gilarova (Moscow, RU)	681
10:36	The clinical case of successful treatment of heart failure due to tachycardia-induced cardiomyopathy in a patient with paroxysmal atrial flutter. M.R. Atabegashvili, D.U. Shchekochikhin, M.U. Gylarov, K.V. Razumov, G.A. Gromiko, E.S. Pershina (Moscow, RU)	682
10:42	Myocardial iron repletion and changes in left ventricular function M. Soler Costa, I. Cardells, G. Minana, M. Amiguet, J. Gonzalez, E. Valero, E. Santos, M.P. Lopez-Lereu, J.V. Monmeneu, R. De La Espriella, J. Nunez (Valencia, ES)	683
10:48	Case report: Role of parenteral nutrition in reversing cardiomyopathy due to malnutrition in intractable Crohn's disease Y.M. Mansour, M.K. Khan, J.H. Hamed (Sydney, AU; Abu Dhabi, AE)	684
10:54	Pheochromocytoma as cause of heart failure with recovered ejection fraction. C. Gallego, C.I. Saldarriaga, J.D. Uribe, L.A. Fajardo, L.J. Tamayo, J.D. Martinez, A. Agudelo (Medellin, CO)	685

## Morning Sessions

10:00 - 11:00

MODERATED POSTERS

MODERATED POSTER AREA

### Moderated Poster Session - Chronic heart failure

Chairperson(s): O. Chioncel (Bucuresti, RO); K. Sliwa-Hahnle (Cape Town, ZA)

- |       |  |     |
|-------|--|-----|
| 10:00 | <p><b>Effects of blood pressure lowering drugs in heart failure: a systematic review and meta-analysis of randomised controlled trials</b></p> <p>A.C. Pinho-Gomes, L. Azevedo, Z. Bidel, M. Nazarzadeh, D. Canoy, E. Copland, A. Salam, A. Rodgers, D. Kotecha, K. Rahimi (Oxford and Birmingham, GB; Porto, PT; Telangana, IN; Sidney, AU)</p>   | 686 |
| 10:06 | <p><b>Association between heart failure medication at discharge and heart failure readmission</b></p> <p>W.J. Kruik-Kolloffel, J. Van Der Palen, C.J.M. Doggen, H.J. Kruik, E.M. Heintjes, K.L.L. Movig, G.C.M. Linssen (Hardenberg, Enschede, Hengelo and Utrecht, NL)</p>  | 687 |
| 10:12 | <p><b>Association of loop diuretics use and dose with outcomes in outpatients with heart failure: a systematic review and meta-analysis involving 48,628 patients</b></p> <p>C. Kapelios, M. Bonou, K. Malliaras, S. Vakkou, E. Athanasiadi, A. Athanasiou, C. Masoura, J. Barbetseas (Athens, GR)</p>   | 688 |
| 10:18 | <p><b>Combined effects of growth hormone and testosterone replacement treatment in heart failure</b></p> <p>A. Salzano, A.M. Marra, M. Arcopinto, R.D.assante, D. Pasquali, G. Rengo, T. Suzuki, E. Bossone, A. Cittadini (Leicester, GB; Naples and Caserta, IT)</p>  | 689 |
| 10:24 | <p><b>FE-IRON (First Ever Irish heart failure nurses group Review On implementation of ESC iron guideline in Ireland)</b></p> <p>N. Caples, L.O.connor, C. Blaine, C. McNally, R. McClure, S. Murray, K. Mannix, J. Walsh, C. Farrell, E. Kavanagh, C. Howley, M. Lehane, R. Corrigan, C. Murphy, M. Carey (Waterford, Dublin, Cavan, Clare, Limerick, Nenagh, Donegal, Cork, Monaghan and Wexford, IE)</p>  | 690 |
| 10:30 | <p><b>Effect of ferric carboxymaltose on LVEF as assessed by cardiac MRI in patients with chronic heart failure and iron deficiency: a randomized, double-blinded, placebo-controlled, dual-center trial</b></p> <p>M. Karakas (Hamburg, DE)</p>   | 691 |
| 10:36 | <p><b>Sacubitril/valsartan reduces ventricular arrhythmias in parallel with left ventricular reverse remodeling in HFrEF.</b></p> <p>P. Martens, M. Dupont, W. Mullens (Genk, BE)</p>  | 692 |
| 10:42 | <p><b>Security of vacubitril-valsartan in Naive patients. Subanalysis of SAVE-RLife study</b></p> <p>M. Sanmamed Giron, M. Galvan Ruiz, M. Singh, M. Groba Marco, M. Lopez Perez, J. Medina Suarez, D. Rua-Figueroa Erausquin, P. Pena Ortega, A. Cardenes Leon, V. Quevedo Nelson, H. Mendoza Lemes, J.J. Garcia Salvador, P. Martin Lorenzo, E. Caballero Dorta, A. Garcia Quintana (Las Palmas De Gran Canaria, ES)</p>   | 693 |
| 10:48 | <p><b>In-hospital initiation of sacubitril/valsartan in stabilized patients with heart failure and reduced ejection fraction naive to renin-angiotensin system blocker: An analysis of the TRANSITION study</b></p> <p>M. Senni, R. Wachter, K. Witte, E. Straburzynska-Migaj, J. Belohlavek, C. Fonseca, C. Mueller, E. Lonn, A. Noe, A. Chakrabarti, H. Schwende, D. Butylin, D. Pascual-Figal (Bergamo, IT; Leipzig, DE; Leeds, GB; Poznan, PL; Prague, CZ; Lisbon, PT; Basel, CH; Hamilton, CA; Hyderabad, IN)</p> | 694 |
| 10:54 | <p><b>Empaglifozin in real-world chronic heart failure</b></p> <p>B. Rocha, G. Cunha, R. Ventura Gomes, R. Morais, L. Fernandes, L. Campos, I. Araujo, C. Fonseca (Lisbon and Vila Franca de Xira, PT)</p>   | 695 |

## Morning Sessions

10:00 - 11:00

HOW-TO SESSION

VIRTUAL CASE AREA

### Virtual Case 2 - A patient with cardiogenic shock

Chairperson(s): A.V. Nossikoff (Sofia, BG); S. Stoerk (Wuerzburg, DE)

*A 52-year old man suffering from aortic aneurysm rupture was transferred immediately to a specialist heart and lung centre, for an emergency surgical repair of ruptured aneurysm*

10:15 - 10:45

SATELLITE SYMPOSIUM - EXPERTS ON THE SPOT

AGORA 2

### Management of hyperkalaemia in patients with heart failure - A multidisciplinary approach Organised by MedEd Global Solutions & University of Lorraine, supported with an educational grant from Vifor Pharma

Chairperson(s): L. Lund (Stockholm, SE)

*Recognise the importance of hyperkalaemia as a barrier to optimal renin-angiotensin-aldosterone system inhibitor therapy in patients with heart failure.  
Evaluate the benefits and challenges of hyperkalaemia management in patients with heart failure.  
Discuss how to implement a multidisciplinary approach to improve the outcomes heart failure patients with hyperkalaemia.*

10:15	Welcome and introduction - Management of hyperkalaemia in patients with heart failure - A multidisciplinary approach. L. Lund (Stockholm, SE)	696
10:18	Management of hyperkalaemia in patients with heart failure - A multidisciplinary approach. M. Boehm (Homburg, DE)	697
10:38	Questions and answers - Management of hyperkalaemia in patients with heart failure - A multidisciplinary approach. L. Lund (Stockholm, SE)	698

10:15 - 10:45

SATELLITE SYMPOSIUM - EXPERTS ON THE SPOT

AGORA 1

### Optimize heart failure care program: key learnings from countries Sponsored by Servier

Chairperson(s): M. Cowie (London, GB); Y. Lopatin (Volgograd, RU)

*- To underline the need to optimize the management and the treatment of heart failure patients  
- To share with the participants the main outcomes of the implementation of optimize heart failure care program in countries*

10:15	Introduction - Optimize heart failure care program: key learnings from countries. M. Cowie (London, GB)	699
10:20	Improving the quality of chronic heart failure treatment using an organized multidisciplinary program. R. Mourilhe Rocha (Rio De Janeiro, BR)	700
10:30	Optimize heart failure care program in Bulgaria: data on morbidity, mortality, and quality of life. Y.T. Yotov (Varna, BG); L. Mircheva (Varna, BG)	701
10:40	Conclusion - Optimize heart failure care program: key learnings from countries. Y. Lopatin (Volgograd, RU)	702

## Morning Sessions

11:00 - 12:30

YOUNG INVESTIGATOR AWARD ABSTRACTS

AGORA 2

### Nursing Investigator Award



Chairperson(s): L. Hill (Co.Antrim, GB); T. Hansen (Copenhagen, DK)

Judge(s): I. Uchmanowicz (Wroclaw, PL); J. Boyne (Maastricht, NL)

11:00	Development and feasibility testing of an avatar-based education application for improving heart failure patients' knowledge and self-care behaviours P. Wonggom, H. Du, C. Burdeniuk, S. Kelman, P. Nolan, T. Barry, R.A. Clark (Adelaide, AU)	703
11:15	Unexpected loss in advanced heart failure L. Kitko, J.E. Hupcey, J.G. Gilchrist (University Park and Durham, US)	704
11:30	Motivations and barriers towards physical activities in heart failure patients with focus on age differences L. Klompstra, T. Jaarsma, A. Stromberg, M.H.L. Van Der Wal (Linkoping, SE; Groningen, NL)	705
11:45	The effect of multiple interventions by a specialist nurse on the heart failure patients knowledge in self-care management A. Protopapas, F. Kalogirou, N. Vouri, A. Malaktou, L. Paikousis, V. Barberis, E. Lambrinou (Limassol, Famagusta, Larnaca and Nicosia, CY; Cambridge, GB)	706
12:00	Diuretic adjustment algorithm and nonpharmacologic management in patients with heart failure reduce readmission: a randomized clinical trial E.R. Rabelo-Silva, M.K.E.F. Feijo, E.B. Ferro, K.B. Ruschel, G.B. Aliti, A. Biolo, L.E.P. Rohde (Porto Alegre, BR)	707
12:15	Validation of the ELAN HF model and selfcare behaviour in patients with acute decompensated heartfailure. A single centre cohort study in the Netherlands. T.A.M. Vinck, R. Deneer, C.C.A.G. Verstappen, W.E. Kok, K. Salah, V. Scharnhorst, L.C. Otterspoor (Eindhoven, Amsterdam and Nijmegen, NL)	708

11:00 - 12:30

DEBATE SESSION

TRIANTI

### The Grand Debate 2: Challenges in heart failure management: mitral regurgitation and atrial fibrillation

Chairperson(s): G. Filippatos (Athens, GR); F. Ruschitzka (Zurich, CH)

11:00	Positioning of the topic. G. Filippatos (Athens, GR)	709
11:03	All patients with functional mitral regurgitation should receive transcatheter mitral valve repair: PRO	710
11:15	All patients with functional mitral regurgitation should receive transcatheter mitral valve repair: CONTRA. N. Mewton (Bron, FR)	711
11:27	All patients with functional mitral regurgitation should receive transcatheter mitral valve repair: Rebuttal. G. Stone (New York, US); N. Mewton (Bron, FR)	712
11:33	Panel discussion.	713
11:42	Conclusion and take home message. G. Filippatos (Athens, GR)	714
11:45	Positioning of the topic. F. Ruschitzka (Zurich, CH)	715
11:48	All patients with heart failure and Atrial fibrillation should receive catheter ablation: PRO. D.L. Packer (Rochester, US)	716
12:00	All patients with heart failure and Afib should receive catheter ablation: CONTRA. J. Cleland (Glasgow, GB)	717

## Morning Sessions

11:00 - 12:30		DEBATE SESSION	TRIANTI
12:12	Vasodilators should be used in all AHF patients with normal (preserved) blood pressure: <b>Rebuttal</b>		718
	D.L. Packer (Rochester, US); J. Cleland (Glasgow, GB)		
12:18	<b>Panel discussion.</b>		719
12:27	<b>Conclusion and take home message.</b>		720
	F. Ruschitzka (Zurich, CH)		

11:00 - 12:30		SPECIAL SESSION	LAMBRAKIS
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### The year's best papers on heart failure



Chairperson(s): M. Metra (Brescia, IT); S. Anker (Berlin, DE); S. Von Haehling (Berlin, DE)

11:00	<b>Biomarkers.</b>		721
	T. McDonagh (London, GB)		
11:22	<b>Imaging.</b>		722
	C.S. Lam (Singapore, SG)		
11:45	<b>Medical treatment.</b>		723
	P. Ponikowski (Wroclaw, PL)		
12:07	<b>Devices.</b>		724
	A. Coats (Coventry, GB)		

11:00 - 12:30		HOW-TO SESSION	IONIAN SEA
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### Cardiac resynchronisation therapy: optimising device use

Chairperson(s): V.P. Vassilikos (Thessaloniki, GR); C. Linde (Stockholm, SE)

11:00	<b>How to increase the implant rates for class I indicated patients?</b>		725
	K. Dickstein (Stavanger, NO)		
11:22	<b>What imaging techniques do you need?</b>		726
	I. Ikonomidis (Athens, GR)		
11:45	<b>Programming of the device, brady vs tachy.</b>		727
	A. Oto (Ankara, TR)		
12:07	<b>Optimising the post implant care.</b>		728
	W. Mullens (Genk, BE)		

11:00 - 12:30		HOW-TO SESSION	MITROPOULOS
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### Imaging in heart failure: all you need to know

Joint Session with the European Association of Cardiovascular Imaging (EACVI)



Chairperson(s): B. Moura (Porto, PT); B.A. Popescu (Bucharest, RO)

11:00	<b>Echocardiography.</b>		729
	F.J. Pinto (Lisbon, PT)		
11:22	<b>Cardiac magnetic resonance.</b>		730
	C. Bucciarelli-Ducci (Bristol, GB)		
11:45	<b>Hybrid Imaging.</b>		731
	G. Athanasopoulos (Piraeus, GR)		
12:07	<b>New imaging methods in heart failure: shifting paradigm.</b>		732
	J. Celutkienė (Vilnius, LT)		

## Morning Sessions

11:00 - 12:30

SYMPOSIUM

SKALKOTAS

### Inflammation in heart failure



LOCAL TRACK

Chairperson(s): D. Karatzas (Athens, GR); F. Parthenakis (Heraklion, GR)

11:00	Gut microbiome and its role in heart failure	733
11:22	Rericarditis in heart failure. To treat or not? G. Lazaros (Athens, GR)	734
11:45	Imaging inflammation or measuring markersto guide therapy? C.H. Papadopoulos (Athens, GR)	735
12:07	Treatment of inflammation in heart failure M. Noutsias (Halle (Saale), DE)	736

11:00 - 12:30

SYMPOSIUM

AEGEAN SEA

### Dilated cardiomyopathies: what are the mechanisms?

Chairperson(s): P. Seferovic (Belgrade, RS); B. Meder (Heidelberg, DE)

Basic Science - Translational

11:00	Genetics does it all! P. Garcia-Pavia (Madrid, ES)	737
11:22	Viruses: innocent bystanders? C. Tschoepe (Berlin, DE)	738
11:45	Genes and acquired diseases together! S. Heymans (Maastricht, NL)	739
12:07	Novel therapeutic targets.	740

11:00 - 12:30

SYMPOSIUM

AGORA 1

### Patient and family engagement: compelling need for improvement

Chairperson(s): T. Jaarsma (Norrkoping, SE); E. Lambrinou (Limassol, CY)

11:00	Person-centred care in patients with heart failure: ready for prime time. I. Ekman (Goteborg, SE)	741
11:22	Patient involvement in clinical research: from design to implementation. A. Stromberg (Linkoping, SE)	742
11:45	Patient associations in heart failure: current status and perspectives. D. Fitzsimons (Belfast, GB)	743
12:07	Patients in the ESC guidelines: the emerging role. M. Lainscak (Murska Sobota, SI)	744



## Lunchtime Sessions

12:45 - 14:00

SATELLITE SYMPOSIUM

TRIANTI

### Treatment choices to optimise benefits for heart failure patients

Sponsored by Novartis

Chairperson(s): F. Ruschitzka (Zurich, CH); J. McMurray (Glasgow, GB)

*The aim of this Satellite Symposium is to discuss the pharmacological management of patients with heart failure with reduced ejection fraction in different settings.*

*It is anticipated that this Satellite Symposium will enhance participants' understanding of how:*

- a) Heart failure, if not optimally treated, puts patients at high risk of deteriorating quality of life, re-hospitalisation and death*
- b) Optimising heart failure treatments before hospital discharge improves patient outcomes*
- c) To seize the opportunity to optimise treatment at different time points of each patient's disease phase*

12:45	Welcome and introduction - Treatment choices to optimise benefits for heart failure patients.	745
	F. Ruschitzka (Zurich, CH)	
12:48	Optimising treatment for patients in the vulnerable phase.	746
	J. Butler (Atlanta, US)	
13:06	How to achieve the optimisation we aim for.	747
	M. Senni (Bergamo, IT)	
13:24	Personalising care for heart failure patients.	748
	J. McMurray (Glasgow, GB)	
13:42	Panel discussion - Treatment choices to optimise benefits for heart failure patients.	749
	F. Ruschitzka (Zurich, CH); J. McMurray (Glasgow, GB); M. Senni (Bergamo, IT); J. Butler (Atlanta, US)	
13:57	Summary and conclusion - Treatment choices to optimise benefits for heart failure patients.	750
	J. McMurray (Glasgow, GB)	

12:45 - 14:00

SATELLITE SYMPOSIUM

LAMBRAKIS

### An update on device technologies in heart failure

Sponsored by Medtronic

Chairperson(s): P. Seferovic (Belgrade, RS); W. Mullens (Genk, BE)

*Discuss the disparity in care for device therapy in the different European countries and how this could be addressed.*

*Learn and discuss which patients benefit from device therapy for heart failure (cardiac resynchronization therapy and left ventricular assist devices) and the latest clinical results.*

12:45	Introduction - An update on device technologies in heart failure.	751
	P. Seferovic (Belgrade, RS)	
12:50	Disparity in care for device therapy in Europe.	752
	K. Dickstein (Stavanger, NO)	
13:05	Cardiac Resynchronization Therapy (CRT): which patients and what are the results?	753
	C. Linde (Stockholm, SE)	
13:20	Smart device algorithms to increase CRT response: latest clinical evidence.	754
	K. Witte (Leeds, GB)	
13:35	Left ventricular assist devices: which patients and what are the results?	755
	H. Bushnaq (Rostock, DE)	
13:50	Summary and conclusions - An update on device technologies in heart failure.	756
	W. Mullens (Genk, BE)	

## Lunchtime Sessions

12:45 - 13:45

SATELLITE SYMPOSIUM

IONIAN SEA

### Sodium-glucose co-transporter 2 inhibition and the heart: lessons from cardiovascular outcomes trials in Type 2 diabetes (EBAC Accredited)

Organised by the Sahlgrenska Academy, University of Gothenburg, Sweden, supported with an educational grant from AstraZeneca. Course Director: Professor Karl Swedberg

Chairperson(s): A. Mebazaa (Paris, FR)

*This educational event aims to help delegates understand:*

- The latest data from cardiovascular outcomes trials with sodium-glucose co-transporter 2 inhibitors
- How cardiovascular outcomes trial data are informing cardiovascular risk management in Type 2 diabetes
- The ongoing mechanistic and clinical studies with sodium-glucose co-transporter 2 inhibitors that are examining their potential utility in cardiovascular and renal disease outside the diabetes population

12:45	Welcome and introductions - Sodium-glucose co-transporter 2 inhibition and the heart: lessons from cardiovascular outcomes trials in Type 2 diabetes. A. Mebazaa (Paris, FR)	757
12:50	What have cardiovascular outcomes trials taught us about cardiovascular risk management? S. Wiviott (Boston, US)	758
13:05	Emerging knowledge on cardiorenal protection. S. Verma (Toronto, CA)	759
13:15	From classroom to clinic: sodium-glucose co-transporter 2 inhibitor evidence in practice. S. Verma (Toronto, CA); M. Cowie (London, GB); S. Wiviott (Boston, US); A. Mebazaa (Paris, FR)	760
13:25	What we still need to learn from sodium-glucose co-transporter 2 inhibitors to predict the future. M. Cowie (London, GB)	761
13:35	Q&A - Sodium-glucose co-transporter 2 inhibition and the heart: lessons from cardiovascular outcomes trials in Type 2 diabetes. S. Verma (Toronto, CA); M. Cowie (London, GB); S. Wiviott (Boston, US); A. Mebazaa (Paris, FR)	762

12:45 - 13:45

SATELLITE SYMPOSIUM

MITROPOULOS

### Management of iron deficiency in heart failure: implementing best practices to improve patient outcomes

Organised by MedEd Global Solutions & Charité Universitätsmedizin Berlin, supported with an educational grant from Vifor Pharma

Chairperson(s): P. Ponikowski (Wroclaw, PL); G. Filippatos (Athens, GR)

*Recognise the clinical impact of iron deficiency in patients with heart failure.*

*Evaluate the evidence base and implement best practice guidelines for the management of iron deficiency in chronic heart failure with reduced ejection fraction.*

*Assess knowledge gaps and review ongoing studies evaluating iron therapy in chronic heart failure with preserved ejection fraction and acute heart failure.*

12:45	Welcome and introduction - Management of iron deficiency in heart failure: implementing best practices to improve patient outcomes. P. Ponikowski (Wroclaw, PL)	763
12:50	Iron deficiency in heart failure: what do we know in 2019? P. Van Der Meer (Groningen, NL)	764
13:05	Management of iron deficiency in clinical practice: implementing the guidelines. P. Ponikowski (Wroclaw, PL)	765
13:20	Addressing knowledge gaps: ongoing research on iron deficiency in chronic and acute heart failure. S. Anker (Berlin, DE)	766
13:35	Panel discussion and close - Management of iron deficiency in heart failure: implementing best practices to improve patient outcomes. G. Filippatos (Athens, GR)	767

## Lunchtime Sessions

12:45 - 14:00

SATELLITE SYMPOSIUM

SKALKOTAS

### Advances in heart failure management: what if you can do more for more patients?

Sponsored by Abbott

Chairperson(s): B. Assmus (Frankfurt / Main, DE); F. Gustafsson (Copenhagen, DK)

*Attendees will learn about innovative approaches to improve the management of advanced heart failure. The Satellite Symposium will focus on the next level of cardiac resynchronization therapy and discuss how to manage worsening heart failure using insights gained from an implantable pulmonary artery pressure sensor. Lastly the current evidence in the optimization of Left Ventricular Assist Device (LVAD) therapy using pulmonary artery pressure monitoring will be reviewed.*

12:45	Activate, the next level of cardiac resynchronization therapy: static or dynamic? M. Gwechenberger (Wien, AT)	768
13:03	Pulmonary Artery Pressure (PAP) monitoring: early insights to prevent decompensation. B. Assmus (Frankfurt / Main, DE)	769
13:23	PAP monitoring in advanced heart failure - A case study. F. Gustafsson (Copenhagen, DK)	770
13:43	Optimizing LVAD therapy in advanced heart failure by means of PAP monitoring. J.J. Brugts (Rotterdam, NL)	771

12:45 - 13:45

SATELLITE SYMPOSIUM

AEGEAN SEA

### Who should receive the wearable cardioverter defibrillator? Evidence and risk stratification for prevention of sudden cardiac death

Sponsored by Zoll

Chairperson(s): C. Leclercq (Rennes, FR); L. Kober (Copenhagen, DK)

*This program will focus on which patient should receive the Wearable Cardioverter Defibrillator (WCD) as well as on the evidence and risk stratification for the prevention of sudden cardiac death. Presentations will include an overview of the most important WCD data including the first randomized device trial, VEST, as well as consistent registry data of about 20.000 patients and will discuss the implications of these data in clinical practice.*

*The faculty will also focus on the time for guideline directed medical therapy that is needed in the treatment of newly diagnosed heart failure patients and will review the impact of those patients who choose to wear the WCD.*

12:45	Introduction - Who should receive the wearable cardioverter defibrillator? Evidence and risk stratification for prevention of sudden cardiac death L. Kober (Copenhagen, DK)	772
12:50	Distilling the clinical evidence behind the WCD - What have clinical trials and registries told us? C. Veltmann (Hannover, DE)	773
13:05	Taking you time in the treatment of newly diagnosed heart failure patients. J.W. Erath (Frankfurt A.M., DE)	774
13:20	The impact of the WCD for patients who choose to wear it. A. Flammer (Zurich, CH)	775
13:35	Panel discussion and summary - Who should receive the wearable cardioverter defibrillator? Evidence and risk stratification for prevention of sudden cardiac death. C. Leclercq (Rennes, FR)	776

## Lunchtime Sessions

12:45 - 13:45

SATELLITE SYMPOSIUM

AGORA 1

### An un-nerve-ing disease: diagnosing hATTR amyloidosis beyond the heart Sponsored by Akcea Therapeutics

Chairperson(s): M.A. Dimopoulos (Athens, GR)

- *This Satellite Symposium will discuss the critical role of heart failure specialists to make a rapid and accurate diagnosis amongst more common cardiac conditions*

- *Highlight the need to identify signs and symptoms of polyneuropathy in patients with cardiac involvement*

- *Stress the urgency to initiate treatment early in mixed phenotype hATTR amyloidosis patients*

12:45	Chair welcome - An un-nerve-ing disease: diagnosing hATTR amyloidosis beyond the heart. M.A. Dimopoulos (Athens, GR)	777
12:50	All mixed up about cardiac amyloid? hATTR amyloidosis in mixed phenotype patients. P. Garcia-Pavia (Madrid, ES)	778
13:05	Everything you were too nerve-ous to ask (your neurologist) about hATTR amyloidosis. L. Obici (Pavia, IT)	779
13:20	Going above and beyond: your critical role in diagnosing mixed phenotype patients. T. Damy (Creteil, FR)	780
13:35	Questions & answers - An un-nerve-ing disease: diagnosing hATTR amyloidosis beyond the heart. M.A. Dimopoulos (Athens, GR); P. Garcia-Pavia (Madrid, ES); L. Obici (Pavia, IT); T. Damy (Creteil, FR)	781

## Afternoon Sessions

14:00 - 15:30

HOW-TO SESSION

AEGEAN SEA

**Global position paper on endomyocardial biopsy in cardiovascular medicine**  
**Joint Session with the Heart Failure Society of America (HFSA) and the Japanese Heart Failure Society (JHFS)**



Chairperson(s): A. Coats (Coventry, GB); M. Mehra (Boston, US); H. Tsutsui (Fukuoka, JP); G. Filippatos (Athens, GR)

14:00	Endomyocardial biopsy: indications and risk. M. Mehra (Boston, US)	782
14:18	The role of endomyocardial biopsy in clinical decision making. L. Cooper (Jacksonville, US)	783
14:36	Endomyocardial biopsy: research application and future perspectives. P. Seferovic (Belgrade, RS)	784
14:54	Mihai Gheorghiu Lecture. R. Starling (Cleveland, US)	785
15:12	Honorary Fellowship. H. Tsutsui (Fukuoka, JP); R. Starling (Cleveland, US); C. O'Connor (Durham, US); M. Mehra (Boston, US)	786

14:15 - 15:45

YOUNG INVESTIGATOR AWARD ABSTRACTS

AGORA 2

**Young Investigator Award - Basic Science and Translational Science**



Chairperson(s): S. Heymans (Maastricht, NL); A. Gonzalez Miqueo (Pamplona, ES)  
 Judge(s): D. Brutsaert (Kontich, BE); L. Hill (Co.Antrim, GB); M. Ledwidge (Dun Laoghaire, IE)

14:15	GRK2 regulates the endothelial responsiveness to bradykinin: role in human angioedema J. Gambardella, D. Sorriento, A. Fiordelisi, M. Bova, S. Loffredo, L. Carucci, I. Mormile, B. Trimarco, G. Iaccarino, M. Ciccarelli (Naples and Salerno, IT)	787
14:30	Empaglifozin has cardioprotective and anti-inflammatory effects in mice during doxorubicin treatment V. Quagliariello, C. Coppola, D. Rea, A. Barbieri, C. Arra, G. Botti, N. Maurea (Naples, IT)	788
14:45	Sterol metabolism is differentially regulated in human induced pluripotent stem cell-derived cardiomyocytes of peripartum cardiomyopathy patients M.F. Hoes, N. Bomer, T.V. De Jong, M. Ricke-Hoch, V. Guryev, D. Hilfiker-Kleiner, P. Van Der Meer (Groningen, NL; Hannover, DE)	789
15:00	Gut microbiota composition and interactions with diet: dysbiosis in heart failure is partly related to lower fiber intake C. Mayerhofer, M. Kummen, K. Holm, K. Broch, A. Awoyemi, B. Vestad, C. Storm-Larsen, I. Seljeflot, T. Ueland, P. Bohov, R.K. Berge, A. Svardal, L. Gullestad, J.R. Hov, M. Troseid (Oslo and Bergen, NO)	790
15:15	Diastolic function modulation via protein kinase G-dependent Ca2(+)/calmodulin-dependent protein kinase-II phosphorylation and oxidation M. Herwig, S. Pabel, A. Kovacs, S. Ghaderi, D. Kolijn, D. Cimiotti, E. Robinson, V. Nikolaev, S. Van Linthout, C. Tschoepe, K. Jaquet, S. Heymans, S. Sossalla, N. Hamdani (Bochum, Regensburg, Hamburg and Berlin, DE; Maastricht, NL)	791
15:30	Doxorubicin-induced cardiomyopathy: gene variant TRPC6 as therapeutic target K. Bruno, A.C. Morales-Lara, Z. Anastasiadis, C. Landolfo, D. Fairweather, N. Norton (Jacksonville, US)	792

## Afternoon Sessions

14:15 - 15:45 SYMPOSIUM TRIANTI

### Cardiogenic shock: recent advances and future perspectives

Chairperson(s): O. Chioncel (Bucuresti, RO); M. Abdelhamid (Cairo, EG)

World Congress on Acute Heart Failure

14:15	Definition and clinical phenotypes. A. Mebazaa (Paris, FR)	793
14:37	Risk stratification. V.P. Harjola (Helsinki, FI)	794
15:00	Medical therapy. J.T. Parissis (Athens, GR)	795
15:22	Interventions and mechanical circulatory support. D. Milicic (Zagreb, HR)	796

14:15 - 15:45 SYMPOSIUM LAMBRAKIS

### Assessment and treatment of congestion Joint Session with Inter-American Society of Cardiology



Chairperson(s): V. Mitrovic (Bad Nauheim, DE); G. Giannakoulas (Thessaloniki, GR)

World Congress on Acute Heart Failure

14:15	Clinical assessment and in-hospital monitoring. T. Hasin (Jerusalem, IL)	797
14:33	Treatment options for decongestion. J.E. Gomez (Cali, CO)	798
14:51	Biomarkers to evaluate congestion and response to therapy. A. Maisel (Solana Beach, US)	799
15:09	Optimal endpoints for decongestion. E. Fairman (Ciudad Autonoma De Buenos Aires, AR)	800
15:27	Diuretic resistance. W. Mullens (Genk, BE)	801

14:15 - 15:45 GUIDELINES IN DAILY PRACTICE IONIAN SEA

### Guidelines in Daily Practice III: Myocardial revascularisation in heart failure



Chairperson(s): S. Windecker (Bern, CH); I.G. Kanakakis (Athens, GR)

14:15	A case of a patient with myocardial revascularisation and heart failure. I. Milinkovic (Belgrade, RS)	802
14:40	What do the guidelines say? M. Sousa Uva (Carnaxide, PT)	803
14:55	How to implement the guidelines. M. Petrie (Glasgow, GB)	804
15:10	Panel discussion. V. Voudris (Athens, GR)	805
15:30	Conclusion and take home message. S. Windecker (Bern, CH)	806

## Afternoon Sessions

14:15 - 15:45

SYMPOSIUM

MITROPOULOS

### Atrial fibrillation and heart failure Joint Session with the European Heart Rhythm Association (EHRA)



Chairperson(s): C. Leclercq (Rennes, FR)

14:15	A crosstalk between atrial fibrillation and heart failure. C. Leclercq (Rennes, FR)	807
14:37	Medical therapy.	808
15:00	Catheter ablation. J. Nielsen (Aarhus N, DK)	809
15:22	A novel approach to atrial fibrillation: the HFA algorithm. F. Ruschitzka (Zurich, CH)	810

14:15 - 15:45

SYMPOSIUM

SKALKOTAS

### HFmEF: clinical and therapeutic dilemmas

Chairperson(s): J. Bauersachs (Hannover, DE); J. Celutkienė (Vilnius, LT)

14:15	Definition and diagnosis. M. Boehm (Homburg, DE)	811
14:37	Clinical trajectories and risk assessment. L. Lund (Stockholm, SE)	812
15:00	Data from clinical trials. C.S. Lam (Singapore, SG)	813
15:22	Management. M. Metra (Brescia, IT)	814

14:15 - 15:45

SYMPOSIUM

AGORA 1

### The future of big data strategies in heart failure

Chairperson(s): P. Vardas (Athens, GR); R. De Boer (Groningen, NL)

14:15	Medical devices and big data. I. Pina (Detroit, US)	815
14:33	New medical devices and applied data analytics. M. Mamas (Stoke On Trent, GB)	816
14:51	Artificial intelligence for heart failure care. F. Koehler (Berlin, DE)	817
15:09	Using large-scale real-world data to evaluate treatment strategies and guide future clinical trial design: pitfalls and opportunities. F. Asselbergs (Utrecht, NL)	818
15:27	Use of wearables and clinical decision support tools for monitoring heart failure patients. D. Kotecha (Birmingham, GB)	819

## Afternoon Sessions

15:45 - 16:30

CLINICAL CASE POSTERS

MODERATED POSTER AREA

### Clinical Case Corner 3 - The many faces of valve disease

Chairperson(s): M. Petrie (Glasgow, GB); E. Gara (Oxford, GB)

- |       |  |     |
|-------|--|-----|
| 15:45 | An interesting case of right middle and lower zone pneumonia vs infective endocarditis secondary to aortic root abscess presenting as unresolving fever<br>P. Sangoi, S. Narayanan, S. Ramkumar, A. Mulasari (Chennai, IN)   | 820 |
| 15:50 | Acute papillary muscle rupture: multi-specialty team approach ensuring good clinical outcome<br>K. McCreary, A. Farooqui, B. McClements, R. Jegenathan (Belfast, GB)   | 821 |
| 15:56 | The importance of Heart Team in acute heart failure<br>I. Almeida, D. Faria, M. Santos, L. Brizida, R. Teles, L. Raposo, J. Brito, M. Almeida, H. Gabriel, C. Morais (Barreiro and Lisbon, PT)   | 822 |
| 16:01 | A life-threatening cause of acute heart failure at a young age<br>A.R. Pereira, A.R. Almeida, I. Cruz, A. Marques, S. Alegria, A. Briosa, J.G. Santos, D. Sebaiti, M.J. Loureiro, H. Pereira (Almada, PT)  | 823 |
| 16:07 | A long history of recurrent prosthetic mitral valve thrombosis due to hyper eosinophilic syndrome<br>S. Antit, S. Bellakhal, I. Boussabeh, M. Thameur, L. Zakhama, S. Benyoussef (Marsa, TN)   | 824 |
| 16:13 | The prevention of heart failure in case of severe mitral regurgitation. The clinical case of the patient with mitral valve dysplasia.<br>Y. Martyanova (Astrakhan, RU)   | 825 |
| 16:18 | The crucial role of the heart valve team in the management of a complex case of multivalvular disease and heart failure.<br>F. Cannata, M. Chiarito, C. Panico, B. Pagliaro, L. Ardino, L. Torracca, M. Gasparini, P. Pagnotta, E. Corrada, B. Reimers, G. Condorelli, D. Pini (Rozzano, IT) | 826 |
| 16:24 | A case of an acute mitral regurgitation: differential echocardiographic diagnosis with the chronic form.<br>F. Nicoli, S. Mushtaq, E. Conte, D. Andreini, F. Celeste (Milan, IT)   | 827 |

15:45 - 16:30

MODERATED POSTERS

MODERATED POSTER AREA

### Moderated Poster Session - Devices for structural heart disease

Chairperson(s): C. Bucciarelli-Ducci (Bristol, GB); A. Sionis (Barcelona, ES)

- |       |  |     |
|-------|--|-----|
| 15:45 | Six-month outcomes from the multicenter, prospective study with the novel pascal transcatheter valve repair system for patients with mitral regurgitation in the CLASP study<br>K. Spargias, S. Kar, S. Lim, R. Kipperman, W. O'Neill, M. Ng, N. Fam, C. Raffel, J. Webb, M. Rinaldi, A. Latib, G. Cohen, R. Smith, U. Schaefer, T. Feldman (Athens, GR; Los Angeles, Charlottesville, Morristown, Detroit, Charlotte, Plano and Evanston, US; Camperdown, NSW and Chermshire, QLD, AU; Toronto and Vancouver, CA; Milan, IT; Hamburg, DE) | 828 |
| 15:50 | One-year outcomes of the TRI-REPAIR study assessing cardioband tricuspid valve reconstruction system for patients with severe tricuspid regurgitation<br>R.S. Von Bardeleben, J. Hausleiter, U. Schaefer, K.H. Kuck, A. Vahanian, J.M. Juliard, A. Latib, S. Baldus, F. Maisano, G. Nickenig (Mainz, Munich, Hamburg, Cologne and Bonn, DE; Paris, FR; Milan, IT; Zurich, CH)  | 829 |
| 15:56 | Clinical scenarios predict procedural outcomes and indices of right heart function in transcatheter repair of valvular right heart failure<br>F. Schlotter, K.P. Rommel, M. Orban, C. Besler, M. Von Roeder, D. Braun, M. Unterhuber, M. Borger, M. Nabauer, S. Massberg, H. Thiele, J. Hausleiter, P. Lurz (Leipzig and Munich, DE)   | 830 |



## Afternoon Sessions

15:45 - 16:30

MODERATED POSTERS

MODERATED POSTER AREA

- 16:01 Impact of pulmonary hypertension on procedural and clinical outcomes in patients with right heart failure and tricuspid regurgitation undergoing transcatheter edge-to-edge repair 831  
P. Lurz, K.P. Rommel, M. Orban, C. Besler, D. Braun, F. Schlotter, C. Hagl, M. Borger, M. Nabauer, S. Mssberg, J. Hausleiter, H. Thiele (Leipzig and Munich, DE)
- 16:07 Echocardiographic L-Wave as a prognostic indicator in TAVI patients 832  
B. Sadeh, I. Merdler, A. Finkelstein, G. Keren, S. Banai, Y. Topilsky (Tel Aviv, IL)
- 16:13 Long term outcomes in asymptomatic patients with severe aortic stenosis 833  
A.B. Kvaslerud, K. Santic, A. Fiane, H. Skulstad, L. Aaberge, L. Gullestad, K. Broch (Oslo, NO)
- 16:18 Utilization of machine learning to identify gender-specific patterns in short- and long-term mortality after Cardiac Resynchronization Therapy 834  
A. Kosztin, M. Tokodi, Z. Toser, W. Schwertner, A.M. Boros, A. Kovacs, P. Perge, G. Szeplaki, L. Geller, B. Merkely (Budapest, HU)
- 16:24 Papillary muscle dyssynchrony-mediated functional mitral regurgitation: mechanistic insights and modulation by cardiac resynchronization 835  
G. Spinka, P. Bartko, H. Arfsten, G. Heitzinger, N. Pavo, G. Strunk, M. Gwechenberger, C. Hengstenberg, T. Binder, M. Huelsmann, G. Goliash (Vienna, AT)

15:45 - 16:30

HOW-TO SESSION

VIRTUAL CASE AREA

### Virtual Case 3 - A patient with infective endocarditis & acute aortic regurgitation

Chairperson(s): G. Vergaro (Pisa, IT); I. Milinkovic (Belgrade, RS)

*A 68-year old man complaining of recurrent fever for few months, anorexia and weight loss in recent weeks was admitted to hospital. He reported also transient global amnesia two months ago, but no neuroimaging has been performed yet*

15:55 - 16:25

SATELLITE SYMPOSIUM - EXPERTS ON THE SPOT

AGORA 2

### When should a cardiologist consider referring a patient for LVAD therapy?

Sponsored by Abbott

Chairperson(s): F. Gustafsson (Copenhagen, DK); P. Seferovic (Belgrade, RS)

*Attendees will learn who are the best patients to refer for a Left Ventricular Assist Device (LVAD) and at when it's the right time to consider implantation of a LVAD.*

- 15:55 Referring the right patient at the right time for LVAD implantation: guidelines and patient criteria. 836  
F. Gustafsson (Copenhagen, DK)

## Afternoon Sessions

15:55 - 16:25

SATELLITE SYMPOSIUM - EXPERTS ON THE SPOT

AGORA 1

### Making critical choices for patients at the right time - Join the discussion Sponsored by Novartis

Chairperson(s): F. Ruschitzka (Zurich, CH)

*Discuss practical tips for in-hospital and out-patient initiation of heart failure guideline-recommended medical therapy; up-titration of medication; patient follow up post-discharge*

- |       |   |     |
|-------|---|-----|
| 15:55 | Panel discussion - Making critical choices for patients at the right time.<br>F. Ruschitzka (Zurich, CH); J. McMurray (Glasgow, GB); M. Senni (Bergamo, IT);<br>J. Butler (Atlanta, US) | 837 |
|-------|---|-----|

16:30 - 18:00

CLINICAL CASES

AGORA 2

### Clinical Case - Advanced interventions from Alpha to Omega

Chairperson(s): T. Hasin (Jerusalem, IL); H. Tolppanen (Helsinki, FI)

- |       |  |     |
|-------|--|-----|
| 16:30 | Venovenous ECMO as a rescue tool in acute respiratory failure during LVAD implantation in a patient with Cardiogenic Shock<br>G. Gabra, F. Bader, M. Elbanna, I. Hamour, M. Soliman (Abu Dhabi, AE)  | 838 |
| 16:45 | The combined use of left ventricular assist device and extracorporeal membrane oxygenation in a patient with severe heart failure due to myocardial infarction after stent thrombosis<br>A.H. Yamac, B. Schieffer (Hannover and Marburg, DE)   | 839 |
| 17:00 | Oversizing amplatzer device for aortic valve closure in patient with L-VAD, aortic regurgitation and dilated aortic annulus<br>F. Nicolo, A. Montalto, M. Comisso, A. Lio, F. Musumeci (Rome, IT)  | 840 |
| 17:15 | Fulminant lymphocytic myocarditis with cardiogenic shock and multiorgan failure with complete recovery after percutaneous mechanical support and immunosuppression.<br>I. Jurcova, V. Melenovsky, M. Pindak, H. Riha, I. Netuka, J. Maly, O. Szarszoi, J. Maluskova, E. Honsova, W. Bracamonte-Baran, D. Cihakova, M. Kubanek, J. Kautzner (Prague, CZ; Baltimore, US) | 841 |
| 17:30 | A case of cardiac sarcoidosis diagnosed after heart transplantation<br>M. Stratinaki, I. Armenis, N. Kogerakis, E. Leontiadis, M.J. Bonios, A. Gkouziouta, A. Platania, L. Kaklamanis, S. Adamopoulos (Athens, GR)   | 842 |
| 17:45 | Successful transplantation of heart from a donor with Takotsubo syndrome<br>E. Omerovic, J. Oras, B. Redfors, C. Pirazzi, R. Doueh, G. Dellgren (Gothenburg, SE)   | 843 |

16:30 - 18:00

SYMPOSIUM

TRIANTI

### Chronic heart failure: optimising patient management

Chairperson(s): H.P. Brunner-La Rocca (Maastricht, NL); M. Boehm (Homburg, DE)

- |       |   |     |
|-------|---|-----|
| 16:30 | Renin-angiotensin-aldosterone system inhibition.<br>M. Pfeffer (Boston, US)     | 844 |
| 16:52 | Mineralocorticoid receptor antagonists.<br>F. Zannad (Vandoeuvre Les Nancy, FR) | 845 |
| 17:15 | Betablockers/ivabradine<br>M. Komajda (Paris, FR)                               | 846 |
| 17:37 | Sacubitril/valsartan.<br>P. Seferovic (Belgrade, RS)                            | 847 |

## Afternoon Sessions

16:30 - 18:00

CLINICAL CASES

LAMBRAKIS

### Acute heart failure: does clinical settings matter?



MOBILE APP  
SESSION

Chairperson(s): M. Metra (Brescia, IT); D. Tousoulis (Athens, GR)

World Congress on Acute Heart Failure

16:30	<b>Cardiorenal syndrome.</b> K. Damman (Groningen, NL)	848
16:52	<b>Acute myocardial inflammation.</b> C. Basso (Padua, IT)	849
17:15	<b>Atrial fibrillation.</b> D. Vinereanu (Bucharest, RO)	850
17:37	<b>Pulmonary embolism.</b> B. Moura (Porto, PT)	851

16:30 - 18:00

SPECIAL SESSION

IONIAN SEA

### Parade of devices 1: attend and learn



SPECIAL  
SESSION

Chairperson(s): F. Ruschitzka (Zurich, CH); Y. Lopatin (Volgograd, RU)

16:30	<b>Leadless Pacing.</b> E. Simantirakis (Heraklion, GR)	852
16:42	<b>Subcutaneous -ICD.</b>	853
16:55	<b>Cardiac contractility modulation.</b> A. Coats (Coventry, GB)	854
17:08	<b>LA pressure reduction.</b> G. Hasenfuss (Goettingen, DE)	855
17:21	<b>Pressure monitoring.</b> W. Mullens (Genk, BE)	856
17:34	<b>Impedance monitoring.</b> S. Di Somma (Roma, IT)	857
17:47	<b>Congestion monitoring.</b> J. Cleland (Glasgow, GB)	858

16:30 - 18:00

SYMPOSIUM

MITROPOULOS

### Pulmonary congestion: new approaches

Chairperson(s): S. Price (London, GB); A. Mebazaa (Paris, FR)

16:30	<b>Utility of the ultrasound.</b> P. Pang (Indianapolis, US)	859
16:52	<b>Novel biomarkers: the missing link.</b> A. Maisel (Solana Beach, US)	860
17:15	<b>Hemodynamic assesment: do we need it?</b> J. Lindenfeld (Nashville, US)	861
17:37	<b>Telemonitoring: how to avoid re-hospitalisation.</b> F. Koehler (Berlin, DE)	862

## Afternoon Sessions

16:30 - 18:00

SYMPOSIUM

SKALKOTAS

### Cardiorenal axis in heart failure

Chairperson(s): M. Cowie (London, GB); J. Boletis (Athens, GR)

16:30	Renal dysfunction: classification and epidemiology. A. Voors (Groningen, NL)	863
16:48	Diagnosing kidney dysfunction: biomarkers, imaging and more. C.E. Mueller (Basel, CH)	864
17:06	Advances in pathophysiology. M. Jessup (Hingham, US)	865
17:24	Challenges in the management of patients with kidney dysfunction. P. Rossignol (Vandoeuvre Les Nancy, FR)	866
17:42	Heart failure in renal transplantation. S. Marinaki (Athens, GR)	867

16:30 - 18:00

SYMPOSIUM

AEGEAN SEA

### Hypertrophic cardiomyopathies: from gene to disease

Chairperson(s): T. Thum (Hannover, DE); A. Bayes Genis (Badalona, ES)

**Basic Science - Translational**

16:30	All about myofilaments! J. van der Velden (Amsterdam, NL)	868
16:52	Calcium release and hypertrophic cardiomyopathy. M. Daniels (Oxford, GB)	869
17:15	Fibrosis and inflammation. C. Tschoepe (Berlin, DE)	870
17:37	Novel therapeutic targets. L. Carrier (Hamburg, DE)	871

16:30 - 17:15

SPECIAL SESSION

AGORA 1

### Off the record» session

More details on this special session available on the Mob App



# Heart Failure 2019

## Sunday Posters

SUNDAY



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## Posters Sessions

08:30 - 18:00

POSTER SESSION 2

POSTER AREA

### VENTRICULAR ARRHYTHMIAS AND SCD

- The electrocardiographic markers of sudden cardiac death (SCD) and left ventricular global longitudinal strain in recovery peripartum cardiomyopathy patients : do they really recover? P874  
 H.S. Prameswari, M. Hasan, M. Iqbal, T.I. Dewi, T.A. Sabrawi, N.S. Liem (Bandung, ID)
- The characteristics of electrocardiographic markers of sudden cardiac death (SCD) in recovery peripartum cardiomyopathy patients: a novel study P875  
 T.A. Sabrawi, H.S. Prameswari, M. Iqbal, N.S. Liem, T.I. Dewi, M. Hasan (Bandung, ID)
- Impact of sustained cardiac tachyarrhythmias recorded in coronary intensive care unit (cicu) on short and long-term mortality and duration of cicu hospitalization. P876  
 P. Papakonstantinou, A. Malliou, G. Chlouverakis, F. Parthenakis, E. Simantirakis (Heraklion, GR)
- Survival of patients with ischemic cardiomyopathy and ventricular tachyarrhythmias: Effect of catheter treatment P877  
 R. Tatarsky, R.B. Tatarskiy, S.V. Garkina, D.S. Lebedev (Saint-Petersburg and Saint Petersburg, RU)

### CHRONIC HEART FAILURE - PATHOPHYSIOLOGY AND MECHANISMS

- Right ventricle function as a predictor of worse prognosis in patients with advanced heart failure with reduced ejection fraction P878  
 A. Drohomirecka, M. Lipczynska, T. Rywik, K. Kozuch, K. Zukowska, K. Kodziszewska, K. Komuda, T. Zielinski (Warsaw, PL)
- Impact of left bundle branch block on left ventricular mechanics in patients with idiopathic dilated cardiomyopath P879  
 H. Badran, A. Omara, W. Abdou, N. Faheem, M. Fathi, M.H. Yacoub (Shebin, EG; London, GB)
- Cardiometabolic and subepicardial obesity: is there a connection? P880  
 A. Vorobeve, V.I. Ruzov, S.M. Akberova, E.A. Gurbanova, R. Khayrullin (Ulyanovsk, RU)
- Markers of cardiac adverse events in patients with reactive fixed pulmonary hypertension secondary to systolic heart failure treated with sildenafil P881  
 A. Duszanska, M. Gierlotka, M. Zakliczynski (Zabrze and Opole, PL)
- Incidence and predictors of pacemaker induced cardiomyopathy: a single-center experience P882  
 A. Abdin, K. Yalin, M. Gramlich, M. Zink, N. Marx, K. Schuett (Aachen, DE; Usak, TR)
- Logistic regression model to predict left ventricular ejection fraction recovery in a heart failure unit P883  
 C.R. Lopez Perales, M. Lasala Alastuey, I. Caballero Jambriña, A. Ruiz Aranjuelo, V. Alonso Ventura, G. Hurtado Rodriguez, A. Portoles Ocampo, M. Sanz Julve, T. Blasco Peiro, A. Perez Guerrero, E. Gambo Ruberte, J. Jimeno Sanchez, B. Peiro Aventin, D. De Las Cuevas Leon, M.R. Ortas Nadal (Zaragoza, ES)
- Dynamics of left ventricular ejection fraction in patients with stable coronary artery disease after coronary artery bypass grafting P884  
 O. Yepanchintseva, O. Zharinov, K. Mikhaliev, B. Todurov (Kiev, UA)
- Predictors of left ventricular systolic recovery may depend on patients' age P885  
 J. Pereira, I. Albuquerque, V. Guiomar, A. Monteiro, C. Gomes, I. Ferreira, S. Tavares, V. Chaves, P. Lourenco, P. Bettencourt (Porto, PT)
- Mitral annular plane systolic excursion and peak systolic shift are simple echocardiographic parameters to detect left ventricle systolic dysfunction in heart failure P886  
 D. Shorikova, A. Gabrielyan, E. Shorikov (Chernivtsy and Kyiv, UA)
- Left ventricular myocardial non-compaction associated with hypertrophic cardiomyopathy: mutation range, life-threatening complications and outcomes P887  
 N. Rineiska, S. Komissarova, N. Chakova, C. Niyazova, V. Prybylskaya (Minsk, BY)
- Left ventricular diastolic dysfunction in patients with paroxysmal atrial fibrillation P888  
 A.R. Babaeva, E.A. Slepukhina, S.I. Davidov, N.S. Kondruchaya, Y.V. Zaharov (Volgograd, RU)
- Left ventricle diastolic dysfunction in ambulatory patients with atrial hypertension P889  
 V.V. Kirillova (Ekaterinburg, RU)

## Posters Sessions

<b>Tissue doppler E/E ratio, a predictor of in-hospital complications in acute myocardial infarction</b> J. Santos, H. Antunes, L. Abreu, I. Pires, L. Goncalves, I. Almeida, E. Correia, G. Pereira (Viseu, PT)	P890
<b>Lack of consensus on the non-invasive diagnosis of diastolic dysfunction in individuals referred for cardiovascular screening</b> G.B. Valstar, S.H. Bots, F.H. Rutten, M.J. Cramer, A.J. Teske, F.W. Asselbergs, L. Hofstra, R. Menken, M.L. Bots, H.M. Den Ruijter (Utrecht and Amsterdam, NL)	P891
<b>Molecular and genetic markers are renin-angiotensin-aldosteron systems as predictors of development of a diastolic heart failure in patients with an obesity</b> T. Zaletova, S.A. Derbeneva, A.R. Bogdanov, Y.G. Panova (Moscow, RU)	P892
<b>Role of endothelin-1 in HFpEF-related ventricular and atrial remodeling</b> D. Bode, P. Deissler, S. Reimers, F. Schoenrath, S. Soltani, C. Stamm, V. Duesterhoeft, C. Knosalla, V. Falk, B.M. Pieske, F.R. Heinzel, F. Hohendanner (Berlin, DE)	P893
<b>Renal function in patients with different types of left ventricular remodeling after acute myocardial infarction</b> V. Oleinikov, L. Salyamova, O. Kvasova, T. Aryasova (Penza, RU)	P894
<b>Biomarkers of hemodynamics stress and development of adverse left ventricular remodeling in patients with acute primary myocardial infarction with ST segment elevation</b> M. Kercheva, T. Ryabova, A. Gusakova, T. Suslova, V. Ryabov (Tomsk, RU)	P895
<b>Dissection of the interventricular septum presenting as rapidly evolving Heart Failure: Spontaneous, traumatic or Ischemic?</b> J.C. Mohan, M.A.D.H.U. Shukla (New Delhi, IN)	P896
<b>Features emotional status at patient with ischemic heart disease and chronic heart failure and different types of left ventricle remodeling</b> A. Ibatov (Moscow, RU)	P897
<b>Cardiovascular function in healthy pregnant and postpartum women: cohort study from South Africa</b> F. Azibani, C.A. Viljoen, J. Hoevelmann, J.A. Baard, O. Briton, K. Sliwa (Cape Town, ZA)	P898
<b>Interrelation of the clinical-functional state and parameters of myocardial remodeling with the functional state of the kidneys in patients with chronic heart failure</b> Z.D. Rasulova, U.K. Kamilova, D.R. Tagaeva, D.R. Masharipova (Tashkent, UZ)	P899
<b>LV global longitudinal strain as a predictor for LV reverse remodeling in dilated cardiomyopathy</b> I.H. Jung (Seoul, KR)	P900
<b>Evolution of LV remodeling geometry and insulin resistance indices under conventional active medication on RAS: ramipril and eprosartan</b> N. Sapojnic, A.P. Caraush, C.D. Roibu, M.P. Caraush, V. Moscalu (Chisinau, MD; Iasi, RO)	P901
<b>Impact of sacubitril/valsartan on reverse cardiac remodeling in Taiwan population</b> C.T. Liao, M.C. Lee, F.H. Kuo, H.S. Toh, W.T. Chang, Z.C. Chen (Tainan, TW)	P902
<b>Right ventricular outflow tract hypertrophy assessment as a diagnostic stratification tool in patients with pulmonary hypertension</b> I. Aguiar Ricardo, R. Placido, J. Agostinho, T. Guimaraes, J. Rigueira, R. Santos, A. Nunes-Ferreira, N. Cunha, T. Rodrigues, S. Pereira, P. Silverio-Antonio, A.G. Almeida, S. Martins, N. Lousada, F.J. Pinto (Lisbon, PT)	P903
<b>The blood levels of apelin and angiotensin-(1-7) and their interrelations with parameters of left ventricular remodeling in patients with hypertension and type 2 diabetes</b> K. Iushko, S. Koval, I. Snihurska, T. Starchenko, D. Miloslavskiy (Kharkiv, UA)	P904
<b>Bone morphogenetic protein and adverse left ventricular remodeling in patients with acute primary STEMI</b> M. Kercheva, T. Ryabova, T. Suslova, A. Gusakova, V. Ryabov (Tomsk, RU)	P905
<b>Heart rate variability and left ventricle volumetric indices in patients after the acute Q-wave myocardial infarction</b> N. Zakirov, Y. Kevorkova, G. Mullabaeva, A. Kevorkov (Tashkent, UZ)	P906
<b>The PARTHENON study: PATient RegisTry assessing effectiveness and safety of HEart failure treatment with Sac/Val acrOss CaNada</b> M. McDonald, A. Ducharme, J. Ezekowitz, J. Howlett, J. Udell, N. Bastien (Toronto, Montreal, Edmonton and Calgary, CA)	P907

## Posters Sessions

- Prediction of pharmacological reverse remodeling in non-ischemic dilated cardiomyopathy with wide QRS-complex.** P908  
 K. Maemura, Y. Ikeda, M. Yazaki, T. Ooki, T. Fujita, T. Nabeta, E. Maekawa, T. Naruke, T. Koitabashi, T. Inomata, J. Ako (Kanagawa, JP)
- Neurohormonal antagonist therapies, renal function and kalaemia: a trade-off to consider when treating heart failure patients** P909  
 J. Rigueira, J.R. Agostinho, T. Rodrigues, R. Santos, A. Nunes-Ferreira, I. Aguiar-Ricardo, N. Cunha, T. Guimaraes, M. Mendes Pedro, F. Veiga, M. Almeida Ribeiro, S. Longo, N. Lousada, F.J. Pinto, D. Brito (Lisbon, PT)
- Does PSV in ICA independently predict plasma levels of NT-proBNP in patients with HFrEF diabetic cardiomyopathy and ipsilateral carotid artery disease?** P910  
 S.-M. Papazoglou, U. Jaffer, M. Aslam, D. Richter, A. Trikas, C. Pantos, K. Toutouzias, P. Nihoyannopoulos, N.J. Standfield, D. Tousoulis (Athens, GR; London, GB)
- Ten-year differences in indications for cardiac resynchronization therapy in international guidelines - insights from the Heart Failure Pilot and Long-Term Registries of the ESC** P911  
 K. Ozieranski, M. Grabowski, P. Balsam, A. Kaplon-Cieslicka, A. Tyminska, L. Januszkiewicz, M. Michalak, M. Peller, M. Marchel, M.G. Crespo-Leiro, A.P. Maggioni, J. Drozd, K.J. Filipiak, G. Opolski (Warsaw, PL)
- Hypertrophic cardiomyopathy unmasked after treatment of heart failure** P912  
 O. Sheyin, B. Al-Sabeq, N. Tzemos, R. Davey, S. Smith, R. Mckelvie, S. De (London, CA)
- Left ventricular ejection fraction recovery in patients with heart failure with reduced ejection fraction treated with sacubitril/valsartan.** P913  
 P. Diez Villanueva, F. De La Cuerda, L. Vicent, A. Esteban-Fernandez, M. Gomez-Bueno, J. De Juan, A.M. Iniesta, A. Ayesta, A. Rojas, R. Bover, D. Iglesias, M. Garcia Aguado, J.A. Perea Egido, J. Salamanca, M. Martinez-Selles (Madrid, ES)
- Real-world experience with angiotensin ii receptor blocker neprilysin inhibitor: reverse remodelling is the norm** P914  
 A. Martinho, J. Almeida, F. Franco, S. Costa, R. Baptista, M. Robalo, A. Pinho, L. Goncalves (Coimbra and Braga, PT)
- Alteration of left ventricular structure and function after treatment with angiotensin receptor-neprilysin inhibitor in patients with heart failure with reduced ejection fraction (ALLEVIATE-HF)** P915  
 C. Jirathiyut, S. Yamwong, M. Chandavimol, P. Vathesatogkit, T. Ngernsritrakul, T. Yingchoncharoen (Bangkok, TH)
- Comparison of physical rehabilitation methods in heart failure patients** P916  
 V.L. Galenko, T.A. Lelyavina, M.Y. Sitnikova (Saint-Petersburg, RU)
- The prevalence of significant valvular heart disease in very elderly patients with HFrEF** P917  
 A. Lo Forte, F. Orso, A. Pratesi, A.C. Baroncini, A. Herbst, M. Migliorini, V. Vanni, C. Ghiara, L. Martinese, R. Imbrici, M. Di Bari, F. Fattirolli, A. Ungar, S. Baldasseroni (Florence, IT)
- Prognostic impacts of body mass index and statin therapy on long term mortality in patients with ischemic cardiomyopathy** P918  
 H.J. Yoon, K.H. Kim, H.Y. Kim, J.Y. Cho, H.J. Park, J.C. Park (Gwangju, KR)
- Impact of post-discharge statin withdrawal on long-term clinical outcome in patients with ischemic heart failure with reduced ejection fraction** P919  
 E.E. Kim, B.H. Hwang, K. Chang, Y. Ahn, J.J. Kim (Seoul and Gwangju, KR)
- Possibilities of clinical application of the new biomarker ST2 in heart failure patients: an exercise test** P920  
 E.V. Grakova, K.V. Kopeva, A.T. Teplyakov, M.V. Soldatenko, O.N. Ogurkova, A.A. Garganeeva (Tomsk, RU)
- Cerebral oximetry and haemodynamic parameters during controlled orthostatic challenge in heart failure and normal subjects** P921  
 H. Holm, E. Bachus, V. Hamrefors, P. Wollmer, O. Melander, A. Fedorowski, M. Magnusson (Malmo, SE)
- Diastolic heart failure in patients with chronic obstructive pulmonary disease in combination with hypertension** P922  
 A. Melenevych (Kharkiv, UA)
- Laboratory and clinical indicators of chronic heart failure in patients with rapidly progressive left ventricular remodeling** P923  
 V. Oleinikov, L. Salyamova, T. Aryasova, N. Burko (Penza, RU)



## Posters Sessions

- RecovHF - predictive markers of one year recovery** P924  
 R. Carvalho, C. Ruivo, F. Montenegro Sa, S. Fernandes, M. Carvalho, J. Guardado, J. Correia, F. Soares, J. Morais (Leiria, PT)
- CHRONIC HEART FAILURE - EPIDEMIOLOGY, PROGNOSIS, OUTCOME**
- Prognostic value of NT-proBNP added to clinical parameters to predict two-year prognosis of chronic heart failure patients with mid-range and reduced ejection fraction, a report from FAR NHL registry** P925  
 J. Spinar, J.S. Spinar, L.S. Spinarova, P.J. Parenica, S.M. Spinarova, L.K. Labr, J.J. Jarkovsky, L.O. Ludka, K.J. Krejci, M.F. Malek, O.P. Ostadal (Brno and Prague, CZ)
- Prospective observational study on heart failure: one-year follow-up results of NATURE-HF (NAtional Tunisian REgistry of Heart Failure) outcome registry** P926  
 L. Abid, I. Kammoun, M. Mechri, C. Yousfi, A. Korchani, K. Sammoud, O. Abid, O. Laabidi, M. Ben Hlima, W. Sdiri, K. Mzoughi, L. Bezdah, S. Milouchi, M.S. Mourali, F. Addad (Sfax, Ariana, Tunis, medenine, Sousse and Bizerte, TN)
- Sex-related differences in inflammation-associated biomarkers and their predictive utility for new-onset heart failure** P927  
 L.M.G. Meems, N. Suthahar, R.T. Gansevoort, W.H. Van Gilst, P. Van Der Harst, S.J.L. Bakker, R.A. De Boer (Groningen, NL)
- The patient journey of heart failure patients in Belgian hospitals** P928  
 C. Verhestraeten, L. Ghys, S. Kerckhofs, J. Todoroff, S. Wattel, L. Gabriel, W. Heggermont, A. Heyse, P. Martens, P. Troisfontaines, M. Maris (Vilvoorde, Namur, Aalst, Ronse, Genk and Liege, BE)
- Frequency of cardiac and non cardiac monocomorbidity in heart failure outpatients stratified by ejection fraction phenotype: a single tertiary university center experience** P929  
 G. Giamouzis, A. Xanthopoulos, N.A. Chroub-Papavaïou, G. Karagiannis, A. Pantziou, A. Douras, A. Simou, J. Skoulariqis, F. Triposkiadis (Larissa and Volos, GR; Cleveland, US; London, GB)
- Trends and relevance of non-cardiac mortality in heart failure with reduced, mid-range and preserved ejection fraction: a prospective, long-term follow-up study.** P930  
 N. Ghionzoli, G. Vergaro, L. Innocenti, C. Taddei, A. Giannoni, A. Valleggi, C. Borrelli, C. Passino, M. Emdin (Pisa, IT)
- Which results of the cardiopulmonary exercise test deserve greatest attention to establish the prognosis in heart failure?** P931  
 F. Gama, P. Freitas, A. Ferreira, A. Durazzo, C. Aguiar, A. Tralhao, A. Ventosa, J. Ferreira, M. Mendes (Lisbon, PT)
- The long-term prognosis of patients with different types of heart failure admitted with decompensation in Russia** P932  
 Y. Mareev, V. Mareev, D.S. Polyakov, I.V. Fomin (Moscow and Nizhny Novgorod, RU)
- Gender differences in plasma levels and prognostic value of NT-proBNP in chronic heart failure** P933  
 A. Aimo, J.L. Januzzi, G. Vergaro, R. Latini, I.S. Anand, J.N. Cohn, J. Gravning, H.P. Brunner-La Rocca, A. Bayes-Genis, R.A. De Boer, Y. Takeishi, M. Egstrup, H.K. Gaggin, K. Huber, M. Emdin (Pisa and Milan, IT; Boston and Minneapolis, US; Oslo, NO; Maastricht and Groningen, NL; Badalona, ES; Fukushima, JP; Copenhagen, DK; Vienna, AT)
- RDW is an important marker in a one-year prediction of survival with stable systolic heart failure** P934  
 L.V. Prokopova, M.Y.U. Sitnikova, E.V. Shlyakhto (Saint Petersburg, RU)
- The Charlson comorbidity index: A significant predictor of increased mortality and cardiac related hospitalizations in patients with heart failure** P935  
 I. Gotsman, O. Ezra, D.R. Zwas, C. Lotan, A. Keren (Jerusalem, IL)
- Prognostic role of right ventricular global longitudinal strain in dilated cardiomyopathy** P936  
 M. Cittar, M. Merlo, G. Vitrella, M. Mase', G. Barbatì, M. Belgrano, L. Pagnan, M. Gobbo, L. Crosera, M. Della Paolera, M.A. Cova, D. Stolfo, G. Sinagra (Trieste, IT)
- Impact of nutritional scores in patients with stable heart failure with reduced ejection fraction** P937  
 J. Novak, A. Cho, H. Arfsten, G. Goliasch, P.E. Bartko, G. Strunk, M. Huelsmann, N. Pavo (Vienna, AT)

## Posters Sessions

- Relationship of genetic determination of peripartum cardiomyopathy to its clinical outcome** P938  
T. Schimerova, M. Kubanek, A. Krebsova, L. Piheroova, V. Stranecky, V. Melenovsky, J. Kautzner (Prague, CZ)
- A TNM-like staging system for risk stratification in heart failure patients: comparison with others nosologies** P939  
P. Severino, R. Scarpati, M. Pucci, M. Alfarano, A.D.amato, L. Netti, F. Infusino, D. Alunni Fegatelli, A. Vestri, V. Maestrini, M. Mancone, F. Fedele (Rome, IT)
- Vegetative nervous system imbalance as the factor of development and progression of chronic kidney disease in patients with heart failure associated with metabolic syndrome** P940  
G.M. Dussekeyeva, R.R. Rekvava, A.K. Abdymomunov, Z.N. Ligay, A.I. Isakhanova, M.V. Khomyakova (Almaty, KZ)
- Value of lung ultrasound in chronic stable ambulatory heart failure patients** P941  
M. Domingo, L. Conangla, J. Lupon, M. De Antonio, P. Moliner, E. Santiago-Vacas, E. Zamora, B. Gonzalez, V. Diaz, C. Rivas, P. Velayos, J. Santesmases, S. Altimir, M. Boldo, A. Bayes-Genis (Badalona, ES)
- A registry-based algorithm to predict ejection fraction in electronic health records** P942  
A. Ujji, S. Koudstaal, I. Vaartjes, F.W. Asselbergs, A.W. Hoes, U. Dahlstrom, G. Savarese, L.H. Lund (Utrecht, NL; Linkoping and Stockholm, SE)
- Heart failure with mid-range ejection fraction (HFmrEF): a transition phenotype?** P943  
F. Macera, R. De Maria, M. Gorini, I. Battistoni, M. Iacoviello, A. Iacovoni, V. Palmieri, D. Pasqualucci, G. Leonardi, N. Pagnoni, L. Montagna, M. Floresta, P. Midi, G. Pulignano, A. Mortara (Milan, Florence, Ancona, Bari, Bergamo, Naples, Cagliari, Catania, Rome, Orbassano, Palermo, Albano Laziale and Monza, IT)
- Validation of CHA2DS2-VASc and AHEAD scores for acute coronary syndrome, ischemic stroke and mortality risk stratification in patients with heart failure** P944  
W.S. Hu (taichung, TW)
- The impact of prior ejection fraction on clinical outcomes in patients with heart failure with mid-range ejection fraction** P945  
A. Brann, S. Janwanishstaporn, B. Greenberg (San Diego, US; Bangkok, TH)
- Factors influencing the hospital re-admission rates of heart failure patients: insights from the North-West of England.** P946  
T. Nazir, A. Nugroho, S. Ahmad, I. Ahmed (Manchester and Preston, GB)
- Prognostic impact of transition of left ventricular ejection fraction in patients at risk for heart failure: Insights from the CHART-2 Study** P947  
H. Aoyanagi, Y. Sakata, K. Nochioka, M. Miura, S. Kasahara, M. Sato, T. Fujihashi, S. Yamanaka, T. Shiroto, K. Sugimura, J. Takahashi, S. Miyata, H. Shimokawa (Sendai, JP)
- The 6-min walk test in assessment for mortality in patients with heart failure** P948  
M. Grundtvig, T. Eriksen-Volnes, E.-B.H. Helgesen, M.E. Hansen, L. Gullestad (Trondheim, Lørenskog and Oslo, NO)
- Comparison of of inflammation based prognostic scores in patients with stable heart failure with reduced ejection fraction** P949  
A. Cho, H. Arfsten, J. Novak, G. Goliasch, P.E. Bartko, N. Pavo, M. Huelsmann (Vienna, AT)
- The effect of ejection fraction change during follow-up on outcomes in patients with heart failure with mid-range ejection fraction** P950  
J.C. Choe, J.H. Choi, R.E. Kim, A.R. Kim, J.Y. Shin, J. Ahn, J.S. Park, H.W. Lee, J.H. Oh, H.C. Lee, K.S. Cha, T.J. Hong (Pusan, KR)
- Hospitalisation for heart failure: short term cost savings associated with outcomes reported from the DECLARE-TIMI 58 trial** P951  
B. Kartman, P. Mcewan, H. Bennett, C. Edmonds, I. Gause-Nilsson (Gothenburg, SE; Cardiff and Cambridge, GB)
- Sex difference of mortality and mode of deaths in elderly patients with chronic heart failure - A report from the CHART-2 Study** P952  
K. Nochioka, M.S. Sato, Y.S. Sakata, M.M. Miura, S.K. Kasahara, H.A. Aoyanagi, T.F. Fujihashi, S.Y. Yamanaka, T.S. Shiroto, K.S. Sugimura, J.T. Takahashi, S.M. Miyata, H.S. Shimokawa (Sendai, JP)

## Posters Sessions

- The long term survival rate of patients without CV disease and with HF in Russia. The epidemiologic study EPOCHA** P953  
I.V. Fomin, D.S. Polyakov, Y. Mareev, E.G. Artemyeva, E.N. Smirnova, A.S. Galyavich, N.A. Koziolova, S.G. Kechedzhieva, T.S. Ionova, S.V. Malchikova, V. Mareev (Nizhny Novgorod, Moscow, Cheboksary, Ryazan, Kazan, Perm, Stavropol, Saratov and Kirov, RU)
- Burden of heart failure rehospitalizations in heart failure with preserved versus reduced ejection fraction from Asia** P954  
W.T. Tay, T.H.K. Teng, W. Ouwkerk, J. Tromp, D. Sim, F.R. Jaufeerally, K.T.G. Leong, P.S.D. Yeoh, H.Y. Ong, L.H. Ling, A.M. Richards, C.S.P. Lam (Singapore, SG)
- Prediction of heart failure decompensations using artificial intelligence techniques** P955  
V. Escolar Perez, A. Lozano, N. Larburu, J. Kerexeta, A. Artetxe, G. Artola, R. Alvarez, B. Juez, A. Echebarria, A. Azcona (Bilbao and San Sebastián, ES)
- Prevalence of heart failure in cardiac intensive care unit** P956  
H. Badran, N. Faheem, M.A. Elgharably (Shebin, EG)

### CHRONIC HEART FAILURE - DIAGNOSTIC METHODS

- The ratio of fibroblast growth factor 23 to phosphorus as a predictor of cardiovascular death in heart failure patients with reduced ejection fraction.** P957  
D. Gruson, S.A. Ahn, V. Carbone, M.F. Rousseau (Brussels, BE)
- Soluble ST2/LVMI correlates with native T1 mapping value in 3T cardiac magnetic resonance in patients with dilated cardiomyopathy** P958  
Y.H. Park, S.Y. Lee, S.M. Jung, S.H. Lee, K.S. Choo, J.S. Kim (BUSAN and Yangsan, KR)
- Dynamics of the stimulating growth factor sST2 and interleukin 33 in acute myocardial infarction** P959  
F.D. Akhmatova, V.N. Larina, I.M. Doronina, I.U. Titova (Moscow, RU)
- BNP as the biomarker of diagnosis and prognosis in long-term mortality in a cohort with HFpEF and HFrEF in the south of Brazil** P960  
E. Pitthan, V.N. Hirakata, J.N. Barbisan (Porto Alegre, BR)
- Association between severity of heart failure and chemerin level** P961  
Y. Kovaleva, B. Shelest (Kharkiv, UA)
- The effect of CPAP and oral appliances treatment on biomarkers in patients with heart failure and OSA** P962  
I. Andreieva (Zaporizhzhia, UA)
- Changes in plasma neprilysin levels after left ventricular assist device implantation and association of outcomes during 1-year follow-up** P963  
E.I. Yuce, E. Demir, E. Simsek, P. Ozturk, Z. Parildar, C. Engin, T. Yagdi, M. Ozbaran, S. Nalbantgil, C. Gurgun (Izmir, TR)
- MR-proANP effectively risk stratifies patients with type 2 diabetes regardless of presence of heart failure** P964  
J. Jensen, M. Schou, C. Kistorp, J. Faber, T.W. Hansen, M.T. Jensen, H.U. Andersen, P. Rossing, T. Vilsboll, P.G. Jorgensen (Copenhagen, DK)
- Growth Differentiation Factor-15. A new, long-term prognostic biomarker in chronic heart failure with preserved or mid-range ejection fraction** P965  
A.B. Mendez Fernandez, A. Ferrero-Gregori, A. Garcia-Osuna, S. Mirabet-Perez, M.J. Pirla-Buxo, J. Cinca-Cuscullola, J. Ordóñez-Llanos, E. Roig Minguell (Barcelona, ES)
- Serum surfactant B concentration increases during physical exercise but does not predict patient survival** P966  
A. Drohomirecka, K. Kozar-Kaminska, A. Wojciechowska, A. Kasprzyk-Pawelec, K. Kodziszewska, K. Komuda, T. Rywik, T. Zielinski (Warsaw, PL)
- Novel urinary peptidomic classifiers predict mortality in heart failure patients: (HOMAGE)** P967  
B. Mujaj, Z.Y.Z. Zhenyu Zhang, L.T. Lutgarde Thijs, A.C. Andrew Clark, H.M. Harald Mischak, E.N. Esther Nkuipou-Kenfack, J.C. John Cleland, F.Z. Faiez Zannad, J.A.S. Jan A Staessen (Leuven, BE; Hull, Glasgow and London, GB; Hanover, DE; Nancy, FR)

## Posters Sessions

- Influence of galectin-3 and soluble ST-2 on risk of death and heart failure hospitalization in patients after ST-elevation myocardial infarction treated with primary percutaneous coronary intervention** P968  
 A. Tyminska, A. Kaplon-Cieslicka, K. Ozieranski, M. Budnik, A. Wancerz, P. Sypien, P. Balsam, M. Peller, G. Opolski, K.J. Filipiak (Warsaw, PL)
- Diagnostic and prognostic value of heart rhythm complexity in patients with heart failure** P969  
 C.H. Tsai, H.P. Ma, C.S. Hung, H.S. Shiu, S.H. Hung, Y.H. Lin (Taipei and Hsinchu, TW)
- N-terminal pro-B-type natriuretic peptide in chronic heart failure: The impact of sex across the ejection fraction spectrum** P970  
 U. Ljung Faxen, L.H. Lund, A. Stromberg, D.C. Andersson, C. Linde, U. Dahlstrom, G. Savarese (Stockholm and Linkoping, SE)
- Significance of etiological diagnosis of hypertrophic cardiomyopathy phenocopies** P971  
 E. Szogi, Z.S. Majoros, A. Kovacs, B. Muk, M. Szabo, T. Borsanyi, M. Dekany, C.S.L. Nyeki, R.G. Kiss, N. Nyolczas (Budapest, HU)
- Diverse effects of neprilysin inhibition by sacubitril/valsartan on different forms of natriuretic peptides in patients with HFrEF.** P972  
 S.A. Galochkin, E.E. Feygina, A.G. Semenov, I.A. Meray, Z.D. Kobalava (Moscow, RU; Turku, FI)
- Timing of echocardiographic evaluation of patients with advanced heart failure. Is it time consuming?** P973  
 P. Kostakou, V. Kostopoulos, V. Giannaris, C.H. Olympios, N. Kouris (Athens, GR)
- Short-term echocardiographic evaluation by global longitudinal strain in patients with HFrEF treated with sacubitril / valsartan** P974  
 S. Mazzetti, C. Scifo, R. Abete, D. Margonato, M. Chioffi, J. Rossi, M. Pisani, G. Passafaro, M. Grillo, D. Poggio, A. Mortara (Monza, IT)
- Cardiac output and cardiac index by echocardiography modalities versus thermodilution: a comparative study** P975  
 H.K. Adam Kwa, M.H. Aziman, M.H. Isa, N. Kasinathan, M.F. Usman, M.N.H. Abd Rani (Kuala Lumpur, MY)
- Prognostic value of myocardial fibrosis amount and localization assessed by cardiac magnetic resonance in patients with non ischemic dilated cardiomyopathy with left ventricular systolic dysfunction** P976  
 L. Lupi, D. Farina, E. Gavazzi, I. Papa, M. Piazzani, D. Fabbriatore, G. Arabia, A. Castiello, R. Maroldi, M. Metra, S. Nodari (Brescia, IT)
- Global longitudinal strain for prediction of ejection fraction change in heart failure** P977  
 J.J. Park, J.H. Lee, I.C. Hwang, J.B. Park, J.H. Park, G.Y. Cho (Seongnam, Cheongju-Si, Seoul and Daejeon, KR)
- Left atrial function in HFpEF and HFmrEF patients; relation to pulmonary artery systolic pressure** P978  
 A. Vrettos, L. Al Saikhan, C. Plymen, J. Chilcott, L. Matiti, P. Nihoyannopoulos (London, GB)

### CHRONIC HEART FAILURE - TREATMENT

- Serum potassium levels in very elderly patients with HFrEF** P979  
 M. Migliorini, F. Orso, A. Pratesi, A.C. Baroncini, A. Lo Forte, A. Herbst, V. Vanni, C. Ghiara, R. Imbrici, L. Martinese, M. Di Bari, F. Fattirolli, A. Ungar, S. Baldasseroni (Florence, IT)
- Small tolerated enalapril doses before ARNI administration predicts adverse events during ARNI up-titration** P980  
 A. Ntalianis, I.P. Petropoulos, I. Stamoulopoulos, E. Repasos, G. Maglaras, A. Mareti, M. Kondylis, N. Zografos, A. Koen, K. Tampakis, A. Misesiannidis, E. Venieri, N. Makris, I. Kanakakis, I. Paraskevaïdis (Athens, GR)
- Prescription of sacubitril/valsartan in a real-world population** P981  
 J.R. Agostinho, T. Rodrigues, R. Santos, N. Cunha, J. Rigueira, A. Nunes-Ferreira, I. Aguiar-Ricardo, I. Goncalves, T. Guimaraes, S. Longo, F. Veiga, M. Ribeiro, N. Lousada, F.J. Pinto, D. Brito (Lisboa, PT)
- Use of sacubitril-valsartan in heart failure with reduced ejection fraction: real world experience** P982  
 F.A.C. Ferreira, S. Cristina, A.F. Raposo, E.M. Albuquerque, I. Nabais, C.S. Matias, M.A. Nogueira, R.C.A. Vasconcellos, G.M.M. Proenca (Lisboa, PT; Rio de Janeiro, BR; Minnetonka, US)

## Posters Sessions

- The dangers of non-heart failure hospitalisation for heart failure patients: frequent medication changes without follow up** P983  
E.O. Donoghue, A. Brennan, C.O. Dowling, J. Mc Cormick, R. Trueick, A. Mc Hugh, K. Mc Donald (Dublin and Louth, IE)
- The use and tolerability of Sacubitril/Valsartan in very elderly patients.** P984  
A.C. Baroncini, F. Orso, A. Pratesi, A. Lo Forte, A. Herbst, M. Miglioni, L. Martinese, C. Ghiara, R. Imbriani, V. Vanni, M. Di Bari, F. Fattiroli, A. Ungar, S. Baldasseroni (Florence, IT)
- Clinical, echocardiographic and cost improvement after the onset with sacubitril-valsartan in mexican patients with heart failure.** P985  
V.V. Gomez Leiva, V.E. Ruiz Ruiz, J.L. Fujigaki Zaldivar, F. Flores Puente, J.G. Rodriguez Serrano, L. Campuzano Pineda, E. Gomez Alvarez, J.A. Merino Rajme (Mexico City, MX)
- Very low dose of sacubitril/valsartan for patients with heart failure with reduced ejection fraction; beyond paradigm-HF trial** P986  
K. Chun, H. Kim, J. Oh, C.J. Lee, S.M. Kang (Seoul, KR)
- The efficacy of nicorandil for patients with ischemic chronic heart failure** P987  
F.G. Batar, S. Batar, R. Mitea, I. Bitea, G. Eminovici, M. Teodoru, I. Manitiu (Sibiu, RO)
- Sequential nephron blockade with diuretics improves diastolic dysfunction in patients with resistant hypertension** P988  
D. Fouassier, A. Blanchard, G. Bobrie, P. Boutouyrie, M. Azizi, J.S. Hulot (Paris, FR)
- Optimising heart failure treatment following cardiac resynchronisation therapy** P989  
A. Jorsal, K. Pryds, J. McMurray, H. Wiggers, A. Sommer, J.C. Nielsen, R.R. Nielsen (Aarhus, DK; Glasgow, GB)
- Trimetazidine management: an extraordinary clinical response in patients with heart failure (TRIMEX-Study)** P990  
E.J.J. Chuquiure, O. Fiscal-Lopez, M. Balbuena-Madera, D. Garcia-Romero, M. Chuquiure-Gil, C. Silva-Ruz, E. Tamez-Priego, E. Fiscal-Ruiz, D. Aragon-Jimenez, E. Vidal-Copal, E. Martos-Zuleta, N. Hernandez-Isidro, K. Jacobo-Garcia, C. Sanchez-Ramirez, A. Mendez-Ortiz (Mexico City, Monterrey, Mexico and Poza Rica, MX)
- Careful volume assessment appears to be the critical factor in achieving clinical trial dose of sacubitril/valsartan in the community.** P991  
M. Ferre-Vallverdu, R.B. Pharithi, E.O.connell, M. Walshe, J. Barton, D.O.hare, M. Ledwidge, J. Gallagher, K. Mcdonald (Dublin, IE)
- Cardiopulmonary exercise testing as a fundamental tool in the assessment of the functional class in treating sacubitril / valsartan. Results at 3 months** P992  
C. Beltran Herrera, V. Suberviola Sanchez-Caballero, S. Briongos, C. Cortina, M. Sarrion, A. Sanchez, E. Gomez, A. Estevez, I. Ponz, D. Vaqueriza, M. Dominguez, M.L. Giganto, S. Jimenez, L. Mora, R. Munoz (Madrid, ES)
- Safety profile of sacubitril-valsartan in heart failure with reduced ejection fraction with chronic kidney disease, a real life study** P993  
A. Recio Mayoral, F.J. Cortes Cortes, P. Caravaca Perez, D.F. Arroyo Monino, M. Ribadeneira Ruiz, I. Fernandez, M.P. Ruiz Garcia, M. Chaparro Munoz, A. Castro Fernandez (Seville, ES)
- Early left ventricular reverse remodeling after sacubitril-valsartan treatment. Subanalysis of SAVE-RLife study** P994  
M. Galvan Ruiz, M. Singh, M. Sanmamed Giron, M. Groba Marco, M. Lopez Perez, M. Blanco Nuez, V. Quevedo Nelson, P. Pena Ortega, J. Medina Suarez, D. Rua-Figueroa Erasquin, J.R. Ortega Trujillo, J.R. Morales Gonzalez, E. Caballero Dorta, A. Garcia Quintana (Las Palmas De Gran Canaria, ES)
- Impacts of mineralocorticoid receptor antagonists on mortality in heart failure patients with beta-blockers** P995  
N.P. Kato, K. Kinugawa (Linkoping, SE; Toyama, JP)
- Response rate to sacubitril-valsartan in the community. Is there a clear phenotype?** P996  
R.B. Pharithi, M. Ferre-Vallverdu, E.O.connell, M. Walshe, J. Barton, D.O.hare, C. Sweeney, F. Rathore, K. Mcdonald, J. Gallagher, C. Watson, M. Ledwidge, K. Mcdonald (Dublin, IE)

## Posters Sessions

- Treatment of patients with heart failure with reduced ejection fraction (HFrEF) in Germany: differences between cardiologists and primary care physicians** P997  
 U. Zeymer, R. Groves, T. Merkel (Ludwigshafen Am Rhein and Nuremberg, DE)
- Effects of sacubitril/valsartan on cardiac performance and exercise capacity** P998  
 S. Paolillo, M. Mapelli, F. De Martino, E. Salvioni, M. Prastaro, E. Pirozzi, I. Mattavelli, P. Gargiulo, F. Marsico, C. Vignati, P. Perrone Filardi, P. Agostoni (Naples and Milan, IT)
- Self-motivation, self-regulation and self-care in patients with heart failure: a sequential mixed-method study** P999  
 H.S. J. Chew, K.L. D. Sim, X. Cao, S.Y. Chair (Hong Kong, HK; Singapore, SG)
- Benefits of full yogic breathing for patients with chronic heart failure** P1000  
 A. Shevelyok, G. Kravchenko, V. Venzheha, N. Vatutin (Donetsk, UA; Minsk, BY)
- Analysis of the effectiveness of health education imparted by nursing in an heart failure unit** P1001  
 G. Lopez Moyano, M. Duran Torralba, C. Rus Mansilla, G. Cortez Quiroga, M. Santisteban Sanchez De Puerta, M. Delgado Moreno, Y. Rustarazo Garcia (Andujar, ES)
- Comparative analysis of the European Heart Failure Self-Care Behavior Scale and the Self-care of Heart Failure Index in hospitalized patients with heart failure.** P1002  
 E. Kartamysheva, Y.U. Lopatin (Volgograd, RU)
- Utility of the implementation of a standardized evaluation program for therapeutic adherence in heart failure** P1003  
 M. Duran Torralba, G. Lopez Moyano, C. Rus Mansilla, G. Cortez Quiroga, M. Santisteban Sanchez De Puerta, M. Delgado Moreno, A. Fernandez Suarez, D. Fatela Cantillo (Andujar, ES)
- A propensity-matched study of moderate to severe obesity and mortality in heart failure** P1004  
 P. Chu, Y.Y. Lu (Taipei and Tao-Yuan, TW)
- The impact of self-control and self-help education on quality life of patients with chronic heart failure in Uzbekistan** P1005  
 R.T. Shukurov, T.A. Abdullaev, I.A. Tsoy (Tashkent, UZ)
- The influence of socio-clinical variables on the level of self-care in heart failure patients** P1006  
 I. Uchmanowicz, K. Lomper, B. Prochota, M. Wleklík, M. Lisiak, A. Chudiak (Wroclaw and Olesno, PL)
- Effects of time perspective and executive function on self-care in patients with heart failure: a cross-sectional study** P1007  
 H.S. J. Chew, K.L. D. Sim, K.C. Choi, S.Y. Chair (Hong Kong, HK; Singapore, SG)
- Real world usage and outcomes of all HFrEF patients treated with sacubitril/valsartan in Belgium** P1008  
 T. Sente, R. Van Landuyt, M. Vanlierde, S. Vancayzele (Vilvoorde, BE)
- Sacubitril-valsartan and its effect on ventricular remodeling** P1009  
 M. Abellas Sequeiros, S. Del Prado, G. Alonso Salinas, A. Lorente Ros, J.M. Vileitez Florez, J.L. Moya Mur, A. Garcia Martin, J.J. Jimenez Nacher, C. Fernandez Golfín, J.L. Zamorano Gomez (Madrid, ES)
- Short and medium-term safety and tolerability of Sacubitril-Valsartan and Empaglifozin joint intake** P1010  
 H.M.C. Herminio Morillas Climent, J.S.M. Julia Seller Moya, E.G.J. Emilio Gálceras Jornet, E.A.T. Edgardo Alania Torres, A.V.L. Alvaro Vicedo Lopez, Y.R.P. Ydelise Rodriguez Pichardo, A.L. Ainhoa Larumbe, A.V.M. Alfonso Valle Munoz (Alicante, ES)
- Angiotensin receptor-nepriylsin inhibition improves peak oxygen consumption in reduced heart failure patients** P1011  
 C. Ferreira, A.S. Martinho, J.P. Almeida, A.Z. Freitas, J.A. Ferreira, C. Domingues, J. Milner, S. Costa, F. Franco, H. Vieira, R. Coutinho, R. Baptista, L. Goncalves (Coimbra, PT)
- Sacubitril/Valsartan use in a real world experience: data from a large single-center population of heart failure patients with reduced ejection fraction** P1012  
 M. Mapelli, E. Salvioni, F. De Martino, I. Mattavelli, P. Gugliandolo, C. Vignati, A. Magini, S. Rovai, S. Paolillo, P.G. Agostoni (Milan, Siena and Naples, IT)
- Effects of Sacubitril/Valsartan in real-world HF and reduced ejection fraction (HFrEF) population.** P1013  
 M. Polito, G. Vitulano, A. Rispoli, F.D.auria, A. Gigantino, R. Citro, D. Bonadies, G. Iaccarino, M. Ciccarella (Salerno and Naples, IT)

## Posters Sessions

- Guidelines implementation in very elderly patients with HFREF** P1014  
 A. Herbst, F. Orso, A. Pratesi, A.C. Baroncini, A. Lo Forte, M. Migliorini, V. Vanni, L. Martinese, C. Ghiara, R. Imbrici, M. Di Bari, F. Fattiroli, A. Ungar, S. Baldasseroni (Florence, IT)
- Use of sacubitril-valsartan in elderly patients. Subanalysis of the SAVE-RLife study** P1015  
 M. Galvan Ruiz, M. Sanmamed Giron, M. Singh, M. Groba Marco, J.J. Garcia Salvador, E. Caballero Dorta, M. Lopez Perez, P. Pena Ortega, D. Rua-Figueroa Erasquin, J. Medina Suarez, H. Mendoza Lemes, M. Blanco Nuez, A. Cardenes Leon, A. Garcia Quintana (Las Palmas De Gran Canaria, ES)
- Allopurinol safety and efficacy in heart failure patients: a systematic review** P1016  
 H. Yarmohammadi, M.M. Ansari-Ramandi, S. Beikmohammadi, B.H. Hosseiny Fahimi, N. Naderi (Tehran and Birjand, IR; Lubeck, DE)
- Initial experience of a nursing consultation in the uptitration of neurohumoral treatment in patients with heart failure and reduced ejection fraction** P1017  
 V. Escolar Perez, A. Lozano, A. Echebarria, A. Azcona (Bilbao, ES)
- The impact of the use of sacubitril/valsartan on clinical and echocardiographic parameters in heart failure patients** P1018  
 A. Almaghraby, M. Abdelnabi, T. Kemalolu Oz, M. Elgowelly, Y. Saleh, H. Badran (Alexandria and Cairo, EG; Istanbul, TR; Michigan, US)
- The efficacy of «Get With the Guidelines Heart Failure,» a retrospective analysis** P1019  
 P. Fisher, A. Goldstone, D. Rizk, D. Brodsky, N. Berezovskaya (New York, US)
- Echocardiographic assessment of treating patients with chronic heart failure with mid-range ejection fraction by external counterpulsation** P1020  
 R. Alakbarov, T. Jahangirov (Baku, AZ)
- Early effects of Sacubitril/valsartan on exercise tolerance in patients with heart failure with reduced ejection fraction.** P1021  
 G. Vitale, S. Sarullo, C. Nugara, F.M. Sarullo (Palermo, IT)
- In-hospital management of disease modifying drugs in heart failure with reduced ejection fraction - an opportunity to improve?** P1022  
 I. Nabais, I. Costa, F. Adragao, I. Egidio, P. Moniz, L. Campos, I. Araujo, C. Fonseca (Cascais, Lisbon and Portimão, PT)
- Adherence to therapy in patients with chronic heart failure** P1023  
 E.V. Efremova, A.M. Shutov, S.V. Shevchenko, M.J.U. Kortunova, K.A. Lyukshonkova E.S. Semyonova (Ulyanovsk, RU)
- Hemodynamic and clinical effects of ARNI therapy in patients with advanced heart failure undergoing repeated Levosimendan infusions** P1024  
 G. Masciocco, M. Varrenti, A. Verde, C. Santolamazza, M.G. Cipriani, A. Garascia, E. Ammirati, E. Perna, M. Frigerio, M. Cottini (Milan, IT)
- Efficacy of bromocriptine on 2-year prognosis of life in patients with peripartum dilated cardiomyopathy** P1025  
 S.T. Mirzarakhimova, T.A. Abdullaev, I.A. Tsoy, R.S. Bekbulatova (Tashkent, UZ)
- Quality of heart failure treatment treated by residential cardiologists - The HeartFailureBavaria Project** P1026  
 F. Bisenius, K.J. Osterziel, H. Steinert, H. Stroemer, J. Brandl, M. Hanke, S. Silber, C. Malsch, G. Ertl, S. Frantz, P. Heuschmann, S. Stoerk (Wuerzburg, Amberg, Nuernberg and Muenchen, DE)
- To evaluate the safety and tolerability of ARNI initiation in inpatient versus outpatient setting in an Asian population: a real world study** P1027  
 Y. Zheng, K. Chng, J.S. Hon, H. Chan, C.Y. Khoo, C.T. Ng, L. Teo, D. Sim (Singapore, SG)
- The optimize-heart failure care program in our heart institute in Vietnam** P1028  
 P. Do Thi Nam, H. Do Quang, B. Ha Ngoc, D. Do Van, M.R. Cowie, H. . Do Thi, T. Nguyen Chi, H. Nguyen Thi Thuy, D. Nguyen Huu, T. Nguyen Thi Tuyen, L. Dang Le Thuy, T. Tran Kieu Diem, D. Le Thi, T. Phan Thanh (Ho Chi Minh city, VN)
- The effect of inhibitors of angiotensin receptors and neprilysin on the clinical and functional status of patients with dilated cardiomyopathy** P1029  
 T.A. Abdullaev, I.A. Tsoy, O.K. Hudoyberganov, Y.R. Akhmatov, A.M. Karimov (Tashkent, UZ)

## Posters Sessions

- Indicators of echocardiographic examination with the use of sacubitril/valsartan in patients with CHF caused by dilated cardiomyopathy** P1030  
T.A. Abdullaev, I.A. Tsoy, R.S. Bekbulatova, Y.R. Akhmatov, Z.T. Mashkhurova (Tashkent, UZ)
- Inpatient versus outpatient introduction of angiotensin receptor neprilysin inhibitor in chronic heart failure patients** P1031  
M. Aleyan, N. Newton, C. Bergerot, L. Green, E. Hugon-Vallet, M. Ovize, L. Sebbag (Lyon, FR)
- Management of patients with advanced heart failure and type 2 pulmonary hypertension.** P1032  
I. Malek, M. Hegarova, H. Al-Hiti, J. Vrbska, J. Pirk, I. Netuka, V. Melenovsky (Prague, CZ)
- Neuroendocrine inhibition in patients with heart failure and severe aortic stenosis undergoing TAVI** P1033  
J.E. Pino, F. Ramos Tuarez, P. Torres, K. Chen, M. Kabach, A. Alrifai, L. Lovitz, R. Cubeddu, Rothermberg, R. Chait, M. Nores (Atlantis, US)
- The effect of lisinopril on the functional state of the kidneys in patients with renal dysfunction** P1034  
U.K. Kamilova, Z.D. Rasulova, D.R. Masharipova, D.R. Tagaeva, B.B. Utemuratov, B.B. Toshev, R.A. Khakimova (Tashkent, UZ)
- Levosemendan using in pediatric patients with end-stage heart failure: single center experience.** P1035  
T. Ivanova-Razumova, A.I. Baigalkanova, U. Ahash, A. Janatkyzy, R. Kaliev, T.M. Alpsybaeva, K. Mahambetova (Astana, KZ)
- Availability and accessibility to heart failure treatment in latin america** P1036  
S.G.C. Stephania Galindo Coral, J.E.G. Juan Esteban Gomez Mesa (Cali, CO)
- Decongestion therapy: does it differ from discharge to usual life conditions and among heart failure patients?** P1037  
F. Adragao, I. Nabais, I. Costa, I. Egidio, P. Moniz, L. Campos, I. Araujo, C. Fonseca (Portimão, Cascais and Lisbon, PT)
- The European Heart Failure self-care behaviour scale: psychometric testing of the Hebrew version** P1038  
T. Ben Gal, V. Yaari, B. Avraham, N.P. Kato, L. Klompstra, A. Stromberg, T. Jaarsma (Tel Aviv, IL; Linköping, SE)

### CHRONIC HEART FAILURE - CLINICAL

- Formation of cardio-renal syndrome in patients with chronic heart failure and type 2 diabetes, depending on the choice of glucose-lowering therapy** P1039  
N. Koziolova, P. Karavaev, A. Veklich (Perm, RU)
- Iron parameters and erythropoietin level in patients with chronic heart failure.** P1040  
M. Smirnova, P. Chizhov (Yaroslavl, RU)
- Ambulatory heart failure patients: temporal pattern of vitamin D** P1041  
S.I. James, K. Millar, L.O.connor, T. Mannion, B. Mcadam (Dublin, IE)
- Angiotensin-converting enzyme inhibitors in female patients with diabetes mellitus in reduced ejection fraction heart failure** P1042  
G. Kozdag, D. Ural, I. Karauzum, K. Karauzum, G. Kahraman, T. Kilic, J. Wiley, C. Sanina, C. Baydemir, A. Vural, A. Agacdiken Agir (Kocaeli and Istanbul, TR; New York, US)
- Association of serum galectin-3 with depression in heart failure with reduced ejection fraction** P1043  
I. Alexanian, J. Parissis, V. Bistola, G. Bakosis, M. Thodi, N. Magiras, L. Pappas, S. Xydonas, A. Sideris, G. Filippatos (Athens, GR)
- Evaluation of ventilation response during physical testing in patients with chronic heart failure and chronic obstructive pulmonary disease** P1044  
K.A. Ageeva, V.N. Abrosimov, N.N. Peregodova (Ryazan, RU)
- Chronic obstructive pulmonary disease as comorbidity of the patient with heart failure: clinical profile and follow-up** P1045  
C.N. Perez Garcia, D. Enriquez Vazquez, M. Ferrandez Escarabajal, M. Perez Serrano, R. Bover Freire, I. Vilacosta (Madrid, ES)
- Chronic heart failure confers a higher risk of non-cardiovascular death in a patients with atrial fibrillation** P1046  
M. Polovina, G. Krljanac, D. Djikic, I. Petrovic-Djordjevic, L. Vajagic, V. Kovacevic, I. Veljic, I. Milinkovic, J. Simic, M. Asanin, P.M. Seferovic (Belgrade, RS)



## Posters Sessions

<b>Adherence to guidelines for diabetic patients with heart failure with reduced ejection fraction</b> H.-Y. Chang, C.-W. Hsieh, M.-C. Fong, A.-N. Feng, K.-C. Huang, W.-T. Lai, W.-H. Yin (Taipei, TW)	P1047
<b>Measuring frailty in hospitalized heart failure patients using common lab parameters</b> R.K. Anam, S. Priyadarshni, M.L. Zylberglait (Aventura, US)	P1048
<b>Predictors of cognitive impairment in patients with chronic heart failure and reduced left ventricular ejection fraction</b> A. Solonovych, A.V. Liashenko, I.L. Revenko, L.S. Mkhitarian, L.G. Voronkov (Kiev, UA)	P1049
<b>Improving recognition and management of hyperkalemia in patients with HF: an online educational intervention</b> J. Spyropoulos, S. Mendly (New York, US; London, GB)	P1050
<b>Features of the arterial wall functional state in patients with chronic heart failure with a moderately reduced left ventricular ejection fraction and a persistent form of atrial fibrillation</b> N. Koziolova, E. Polyanskaya, S. Mironova (Perm, RU)	P1051
<b>Clinical predictors of the long-term progression of renal dysfunction in heart failure patients with reduced ejection fraction</b> D. Ural, O. Argan, K. Karauzum, I. Karauzum, G. Kozdag, A. Agir (Istanbul and Kocaeli, TR)	P1052
<b>Features of the clinical picture and remodeling of the left heart in patients with heart failure on the background of ischemic heart disease and thyrotoxicosis</b> A.I. Chesnikova, E.V. Pashchenko, V.P. Terentev, V.I. Kudinov, O.E. Kolomatskaya, A.V. Khripun, N.S. Skarzhinskaya (Rostov-on-Don, RU)	P1053
<b>Heart failure after kidney transplantation</b> D. Loncar, A. Bijedic, I. Bijedic, M. Tabakovic, E. Smajic, D. Mrcic, M. Selimovic (Tuzla, BA)	P1054
<b>Predictors of short form-36 psychosocial variables in heart failure with reduced ejection fraction</b> I. Alexanian, J. Parissis, V. Bistola, M. Thodi, G. Bakosis, N. Magiras, E. Rizou, S. Xydonas, M. Efremidis, A. Sideris, G. Filippatos (Athens, GR)	P1055
<b>Heart failure patients with previous anterior myocardial infarction have a lower cerebral blood flow</b> Y. Cavusoglu, E. Babayigit, M. Dural, K.U. Mert, B. Gorenek, T. Ulus (Eskisehir, TR)	P1056
<b>Iron deficiency predictors in patients with CHF and rLVEF</b> V.G. Gorbachova, A.V. Lyashenko, T.I. Gavrilenko, L.S. Mhitarian, L.G. Voronkov (Kiev, UA)	P1057
<b>Comorbidities and financial difficulties of hospitalized heart failure patients amidst the Greek economic crisis</b> G. Michas, K. Grigoriou, T. Thomopoulos, G. Blazakis, P. Stougiannos, A. Trikas (Athens, GR)	P1058
<b>Chronic kidney disease in patients with acute decompensated heart failure: prevalence and prognostic value</b> S. Avdoshina, M. Efremovtseva, Z. Kobalava (Moscow, RU)	P1059
<b>Iron deficiency prevalence in decompensated heart failure in elderly patients a prospective survey in an emergency hospital</b> D. Bartos, C. Tirziu, F. Gherasie (Bucharest, RO)	P1060
<b>Cardio-renal continuum: relation to the compliance with chronic heart failure treatment</b> B. Kaliullayev, F.Y. Rustamova, K.S. Bekenayeva (Almaty, KZ)	P1061
<b>Malnutrition risk in heart failure with reduced ejection fraction patients - single center pilot study</b> J. Migaj, H. Krysztofciak, M. Dudek, E. Straburzynska-Migaj, M. Kaluzna-Oleksy (Poznan, PL)	P1062
<b>The incidence of chronic heart failure in patients with type 2 diabetes mellitus</b> N.B. Yeshniyazov, V.V. Medovchshnikov, E.A. Tereshchenko, E.R. Khasanova, Z.D. Kobalava (Moscow, RU)	P1063
<b>Comparison of serum selenium and thyroid hormones in patients with acute myocardial infarction, chronic heart failure and healthy volunteers.</b> M.M. Fraczek-Jucha, M. Kabał, B. Szlosarczyk, J. Nessler, A. Gackowski (Krakow, PL)	P1064
<b>Anger, anxiety, depression and quality of life in patients with right heart failure associated with COPD, according to their functional capacity</b> K.L. Rosales-Castillo, C. Pineda-Sanchez, V. Pelaez-Hernandez, L.V. Pachicano- Romero, A. Orea-Tejeda, G.L. Luna-Rodriguez, L.A. Martinez- Bautista, C. Zepeda-Dominguez, A.A. Ibarra-Fernandez, D. Gonzalez-Islas, R.N. Sanchez-Santillan, L. Hernandez-Urquieta, A.J. Flores-Vargas, K. Balderas-Munoz, A. Jimenez-Valentin (Mexico City, MX)	P1065

## Posters Sessions

- The prevalence of chronic kidney disease and change in renal function during treatment optimization in patients with heart failure with reduced ejection fraction** P1066  
 K. Kosa, B. Muk, D. Vagany, Z.S. Majoros, M. Szabo, T. Borsanyi, M. Dekany, N. Nyolczas, R.G. Kiss (Budapest, HU)

### ACUTE HEART FAILURE

- Prognostic significance of an early echocardiographic evaluation of right ventricular dimension and function in acute heart failure.** P1067  
 G. Ruocco, S. Ghio, R. Nuti, A. Palazzuoli (Siena and Pavia, IT)

- Seismocardiography can track right heart catheterization parameters in patients with heart failure: a pilot study** P1068  
 M.M.H. Shandhi, J. Fan, J.A. Heller, M.M.H. Etemadi, O.T. Inan, L.Klein (Atlanta, San Francisco and Chicago, US)

- Morphological characteristics of myocardial inflammation and long-term outcomes in patients with acute decompensation of ischemic chronic heart failure** P1069  
 E.V. Kruchinkina, Y.V. Rogovskaya, O.N. Ogurkova, T.E. Suslova, A.M. Gusakova, R.E. Batalov, V.V. Ryabov (Tomsk, RU)

- Heart failure patients with residual congestion and worsening renal function was associated with increased 1-year cardiovascular event** P1070  
 T. Okabe, T. Yakushiji, T. Kido, T. Kimura, J. Saito, S. Simazu, Y. Oyama, M. Ono, W. Igawa, S. Ebara, K. Yamashita, M.H. Yamamoto, K. Amemiya, N. Ismoura, M. Ochiai (Yokohama, JP)

- Cardiac acoustic biomarkers reflect disease status and cardiac functions in patients with acute decompensate heart failure: the ACTOR-HF trial** P1071  
 J. Shitara, T. Kasai, S. Yatsu, A. Kurita, H. Matsumoto, M. Hiki, H. Daida (Tokyo and Izunokuni, JP)

- Admission copeptin activity closely associated with left ventricular filling pressure in patients with acute decompensated heart failure** P1072  
 O. Narusov, A. Skvortsov, V. Protasov, A. Sychev, D. Protasova, V. Masenko, S. Tereshchenko (Moscow, RU)

- Comparison of chromogranin A to proven biomarkers of natriuretic peptide, and ST2 as a prognostic marker in patients with acute heart failure** P1073  
 B. Park, S.Y. Jang, D.H. Yang, Y.J. Park, H.N. Kim, J.H. Lee, M.H. Bae, H.S. Park, Y.G. Cho, S.C. Chae, N.K. Kim (Daegu, KR)

- Blood urea nitrogen and biomarker trajectories in acute heart failure** P1074  
 O. Barnett, Y. Horiuchi, N. Wettersten, P. Murray, A. Maisel (Lviv, UA; San Diego, US; Dublin, IE)

- Menage a trois - Laboratory markers of myocardial injury, systemic inflammation, and thrombosis in patients with acute heart failure syndromes: insights from the CATSTAT-HF study** P1075  
 J.A. Borovac, D. Glavas, Z. Susilovic Grabovac, D. Supe Domic, T. Ticinovic Kurir, J. Bozic (Split, HR)

- Uptake of heart failure guidelines in the management of acute heart failure admissions with a focus on NT-proBNP: a UK tertiary centre experience.** P1076  
 A. Babu, Y. Purmah, P. Desai (Birmingham, GB)

- Pregnancy-associated plasma proteins in patients with Infarction acute phase STEMI** P1077  
 G. Kayumova, V. Razin (Ulyanovsk, RU)

- Soluble CD163 is associated with LV ejection fraction in patients with STEMI** P1078  
 R. Pudil, L. Zahalkova, C. Andrys, J. Krejsek, J. Stasek, V. Palicka (Prague Hradec Kralove and Hradec Kralove, CZ)

- Splenic volume index using computed tomography is associated with heart failure readmission in patients with acute decompensated heart failure** P1079  
 D. Maeda, K. Sakane, Y. Kanzaki, T. Okuno, S. Nakayama, R. Horai, K. Tsuda, K. Akamatsu, T. Fujisaka, T. Ito, K. Sohmiya, M. Hoshiga (Takatsuki, JP)

- It is the real deal: right ventricular dysfunction is a common finding across different ejection fraction phenotypes in acutely decompensated heart failure patients** P1080  
 J.A. Borovac, D. Glavas, Z. Susilovic Grabovac, J. Bozic (Split, HR)

- Concomitant pericardial effusion predicts adverse outcomes in patients with acute myocarditis** P1081  
 J.Y. Cho, K.H. Kim, H.Y. Kim, H. Park, H.J. Yoon, Y.J. Hong, H.W. Park, J.H. Kim, Y. Ahn, M.H. Jeong, J.G. Cho, J.C. Park (Gwangju, KR)

## Posters Sessions

- Routine indwelling urethral catheterization in acute heart failure patients is associated with increased urinary tract complications without improved heart failure outcomes.** P1082  
A.Y. Jang, J. Moon (Incheon, KR)
- The effect of prehospital diuretic administration on clinical outcomes in patients with acute heart failure.** P1083  
E. Goncalvesova, M. Dankova, P. Lesny, M. Luknar (Bratislava, SK)
- Characteristics and outcomes of diabetic patients with reduced left ventricular ejection fraction post acute myocardial infarction.** P1084  
L. Giudicatti, J. Spiro, K. Lam (Perth, AU)
- The EuroDEM- study: does arrival mode affect ED management and outcome of acute heart failure patient?** P1085  
P. Harjola, P.-L. Martin, T. Tarvasmaki, V.-P. Harjola, S. Laribi (Helsinki, FI; Tours, FR)
- Multicenter randomized clinical trial of the efficacy and safety of intravenous Quercetin in patients with acute decompensated heart failure** P1086  
S. Kozhukhov, A. Parkhomenko (Kiev, UA)
- Optimal intravenous anesthesia in patients with acutely decompensated heart failure undergoing transcatheter aortic valve implantation** P1087  
J.E. Pino, F. Ramos Tuarez, P. Torres, K. Chen, M. Kabach, A. Alrifai, L. Lovitz, R. Cubeddu, M. Rothemberg, R. Chait, M. Nores (Atlantis, US)
- Angiotensin-converting enzyme inhibitors in acute coronary syndrome with mid-range ejection fraction** P1088  
F.M. Fonseca Goncalves, J.P. Guimaraes, S.C. Borges, J.J. Monteiro, P.S. Mateus, J.I. Moreira (Vila Real, PT)
- Haemodynamic effects of heart rate lowering in patients admitted for acute heart failure: to save energy by improving effectiveness** P1089  
J. Rossi, S. Mazzetti, R. Abete, D. Margonato, M. Chioffi, C. Vecchio, C. Cavalotti, G. Malerba, A. Ciro', P. Delfino, A. Mortara (Monza, Saronno, Milan and Varese, IT)
- Predictors of response to levosimendan in patients with decompensated heart failure** P1090  
P. Lesny, M. Dankova, M. Luknar, V. Simovicova, A. Dlesk, E. Goncalvesova (Bratislava, SK)
- Levosimendan for primary graft failure treatment after orthotopic heart transplantation** P1091  
M. Zaleska-Kociecka, J. Dutton, M. Morosin, R. Fernandez Garda, D. Garcia Saez, A. Simon, B. Zych, S. Kaul, T.C. Aw, N. Lees, A. Hurtado Doce (London, GB)
- Lack of prognostic effect of N-terminal pro-brain natriuretic peptide levels in acute heart failure and functional severe tricuspid regurgitation** P1092  
M. Soler Costa, G. Minana, M. Amiguet, J. Gonzalez, V. Pernias, E. Santos, E. Valero, R. De La Espriella, J. Nunez (Valencia, ES)
- Rapid-deployment of veno-arterial ECMO in patients with refractory cardiogenic shock** P1093  
N. Piatrovich, L. Shestakova, Y. Ostrovsky (Minsk, BY)
- In-hospital results of application of extracorporeal membrane oxygenation in cardiosurgery** P1094  
N. Piatrovich, L. Shestakova, R. Yarosh, M. Bushkevich, D. Krachak, V. Krachak, A. Achinovich, Y. Ostrovsky (Minsk, BY)

### ACUTE HEART FAILURE - EPIDEMIOLOGY, PROGNOSIS, OUTCOME

- Obesity Paradox in Acute Heart Failure from Single Center Observational Study** P1095  
S. Ito, K. Yamaji, S. Mori, M. Yano, T. Morinaga, M. Fukunaga, A. Isotani, M. Hyodo, K. Ando (Kitakyushu, JP)
- Regional differences in the incidence and prognosis of the takotsubo syndrome** P1096  
B. Redfors, S. Jha, S. Thorleifsson, O. Angeras, G. Sarno, A. Ravn-Fischer, O. Frobert, T. Jernberg, P. Tornvall, A. Lyon, S. James, D. Erlinge, E. Omerovic (Gothenburg, Uppsala, Orebro, Stockholm and Lund, SE; London, GB)
- Gender-related differences in quality of life and depressive symptoms in Chilean heart failure patients** P1097  
F. Diaz, H. Verdejo, O. Vera, J. Martinez, P.I. Ivanovic (New York, US; Santiago, CL)

## Posters Sessions

- Early urinary sodium as an early marker of diuretic resistance** P1098  
 M. Cobo Marcos, I.Z.R. Isabel Zegri Reiriz, P.R.P. Paloma Remior Perez, S.G.G. Sergio Garcia Gomez, D.G.R. Daniel Garcia Rodriguez, A.R.C. Alejandra Restrepo Cordoba, A.P.H. Antonio Portoles Hernandez, F.D.R. Fernando Dominguez Rodriguez, A.H. Aitor Hernandez, A.L.S. Angela Lopez Sainz, P.G.P. Pablo Garcia Pavia (Madrid, ES)
- Diuretic dose and worsening renal failure in acute heart failure. DOSE-AHF in real life** P1099  
 I.Z.R. Isabel Zegri Reiriz, A.P.H. Antonio Portoles Hernandez, A.R.C. Alejandra Restrepo Cordoba, X.C.M. Xabier Cia Mendioroz, J.B.H. Jorge Baena Herrera, S.L.J. Sara Lozano Jimenez, F.D.R. Fernando Dominguez Rodriguez, P.G.P. Pablo Garcia-Pavia, M. Cobo Marcos (Madrid, ES)
- Is diabetes a predictor of worse outcome in decompensated heart failure?** P1100  
 E. Fairman, F. Delfino, V. Mauro, A. Charask, Y. Castillo Costa, A. Raffaelli, F. Saltos, V. Rodriguez Rohwain, L. Caceres, A. Barsotti, F. Bottini, L. Rojo, C. Barrero (buenos aires, AR)
- The relationship between transient and persistent worsening renal function and 1-year cardiovascular event in patients with acute decompensated heart failure** P1101  
 T. Kimura, T. Okabe, T. Kido, S. Shimazu, J. Saito, Y. Oyama, W. Igawa, M. Ono, S. Ebara, K. Yamashita, M.H. Yamamoto, K. Amemiya, T. Yakushiji, N. Isomura, M. Ochiai (Yokohama, JP)
- The obesity paradox in practice: cardiovascular versus non-cardiovascular mortality in heart failure** P1102  
 D. Seabra, A. Neto, I. Oliveira, A. Andrade, J. Azevedo, P. Pinto (Penafiel, PT)
- Acute decompensated heart failure in the emergency department: lower 30-day readmission rates in 1000 patients** P1103  
 P. Alves, V. Marinho, J.P. Almeida, R. Baptista, I. Fonseca, L. Goncalves (Coimbra, PT)
- Diuretic efficacy as a prognostic marker in patients admitted for heart failure** P1104  
 I.Z.R. Isabel Zegri Reiriz, A.P.H. Antonio Portoles Hernandez, A.R.C. Alejandra Restrepo Cordoba, X.C.M. Xabier Cia Mendioroz, J.B.H. Jorge Baena Herrera, F.D.R. Fernando Dominguez Rodriguez, S.L.Z. Sara Lozano Jimenez, P.G.P. Pablo Garcia Pavia, M. Cobo Marcos (Madrid, ES)
- Demographics, management, and in-hospital outcomes of patients with hospitalized acute heart failure syndromes in the contemporary real clinical practice** P1105  
 H. Yaku, T. Kato, T. Morimoto, Y. Inuzuka, Y. Tamaki, N. Ozasa, E. Yamamoto, T. Kimura (Kyoto, Nishinomiya, Moriyama and Tenri, JP)
- Incidence and prognosis of the takotsubo syndrome compared to acute myocardial infarction** P1106  
 B. Redfors, S. Jha, S. Thorleifsson, O. Angeras, C. Dworeck, A. Ravn-Fischer, P. Petursson, G. Sarno, A. Lyon, O. Frobert, S. James, D. Erlinge, E. Omerovic (Gothenburg, Uppsala, Orebro and Lund, SE; London, GB)
- Immediate and Long-term survival outcomes of Patients Admitted with Decompensated Heart Failure with underlying Valvular Heart Disease** P1107  
 S. Hari Krishnan, P. Jeemon, G. Sanjay (Trivandrum, IN)
- Body mass index and long-term survivals in admitted patients with acute heart failure according to their heart failure phenotype** P1108  
 J.-H. Lee, D.-H. Bae, M. Kim, K.K. Hwang, M.-C. Cho (Cheongju, KR)
- Incidence and outcome of takotsubo syndrome compared to acute myocardial infarction, in men versus women** P1109  
 B. Redfors, S. Jha, S. Tholeifsson, T. Jernberg, O. Angeras, O. Frobert, P. Petursson, P. Tornvall, G. Sarno, A. Ravn-Fischer, A. Lyon, S. James, D. Erlinge, E. Omerovic (Gothenburg, Stockholm, Orebro, Uppsala and Lund, SE; London, GB)
- Hazardous effects of widespread inotrope use in acute heart failure patients** P1110  
 H.J. Cho, J.H. Kang, H.Y. Lee, B.H. Oh (Seoul, KR)
- Clinical usefulness of cystatin C in patients with acute heart failure: implications for sarcopenia and cachexia** P1111  
 I. Hwang, G.Y. Cho, Y.E. Yoon, J.J. Park, J.B. Park, J.H. Park (Seongnam, Seoul and Daejeon, KR)
- Prognostic value of bioimpedance vector analysis-assessed cachexia in patients with decompensated heart failure** P1112  
 A. Klimenko, A. Rakisheva, S. Villevalde, Z. Kobalava (Moscow and Saint Petersburg, RU; Almaty, KZ)
- Healthcare Expenditure of Patients with Heart Failure in a Developing Country** P1113  
 A. Singh, T. Devasia, Y. Rao, H. Kareem, G. Paramasivam, S. Chauhan, P.N. Shetty, M.S. Rao, D. Uppunda (Manipal, IN; Anquilla, AI)

## Posters Sessions

- Are predictor factors of mortality different depending on the etiology of acute heart failure?** P1114  
I. Almeida, H. Santos, H. Miranda, L. Santos, J. Chin, C. Sousa, S. Almeida, J. Tavares (Barreiro, PT)
- Predictor factors of rehospitalization and mortality in acute heart failure** P1115  
I. Almeida, H. Santos, H. Miranda, L. Santos, J. Chin, C. Sousa, S. Almeida, J. Tavares (Barreiro, PT)

### CORONARY ARTERY DISEASE

- Long-term biological variation of high-sensitivity cardiac troponin t using minimal important differences and reference change values in stable outpatients with cardiovascular disease** P1116  
T. Taeger, E. Giannitsis, K. Greve, H. Froehlich, M. Mueller-Hennessen, M. Vafaie, H.A. Katus, L. Frankenstein, M. Biener (Heidelberg, DE)
- The impact of coronary sinus reducer on left ventricular function in patients with refractory angina; new horizons in ischemic cardiomyopathy?** P1117  
G. Tzanis, A. Palmisano, G. Gallone, F. Ponticelli, L. Baldetti, A. Esposito, A. Colombo, F. Giannini (Milan, IT)
- Interventricular septal dysfunction due to myocardial infarction can result in right ventricular failure in long term follow up** P1118  
C.S. Park, A.M. Gwon, G.H. Kim, J.S. Cho, H.J. Youn (Seoul, KR)
- New biomarkers of cardiovascular endpoints and heart failure progression analysis after myocardial infarction** P1119  
N. Zagidullin, A.F. Hamitova, I.A. Lackman, Z.F. Maksimenko, D.F. Gareeva, E.L. Tulbaev (Ufa, RU)
- Selective beta blockers are beneficial for chronic obstructive pulmonary disease patients with acute myocardial infarction: a nationwide study of 186,326 patients** P1120  
W.H. Wang, C.C. Cheng, G.Y. Mar, K.C. Wei, W.C. Huang, C.P. Liu (Kaohsiung, TW)
- Identifying acute coronary syndrome in patients presenting to the emergency department with chest pain. Development of the CHEST PAIN-ALERT algorithm** P1121  
I. Mrdovic, L. Savic, N. Zlatic, V. Zobenica, D. Jelic (Beograd, RS)
- Clinical characteristics, management and in-hospital mortality of patients with non-st-segment elevation vs. st-segment elevation myocardial infarction in kosovo** P1122  
F. Zhubi Bakija, Z. Rexhaj, A. Ferati, E. Zhubi, E. Koci, R. Leka, E. Haliti, A. Poniku, A. Ahmeti, A. Batalli, S.H. Elezi, F. Shatri, H. Selmani, G. Bajraktari (Pristina, XK)
- Manifestations of frailty in elderly patients with acute coronary syndrome** P1123  
N. Soseliya, O. Lukina, N. Bagmanova, L. Babaeva, S. Villevalde, Z. Kobalava (Moscow, RU)
- SCAD (Spontaneous coronary artery dissection) UK data an observation study of PSCAD vs. Non PSCAD** P1124  
N. Natarajan, D.A. Adlam (Leicester, GB)
- Effect of intravenous ferric carboxymaltose on left ventricular systolic function after acute myocardial infarction** P1125  
F. Barilla, L. Monzo, I. Cardillo, I. Ferrari, F. Biccire, C. Torromeo, G. Pannarale, V. Paravati, C. Gaudio (Rome, IT)

### VALVULAR HEART DISEASE

- Prevalence, clinical features and outcomes of different phenotypes of acute kidney injury in infective endocarditis** P1126  
N. Povalyaev, A. Pisaryuk, M. Sorokina, A. Balatskiy, E. Kotova, Y. Karaulova, M. Efreimtseva, A. Milto, S. Ratchina, A. Safarova, Z. Kobalava (Moscow, RU)
- Prognostic significance of biomarkers in infective endocarditis** P1127  
M. Abellas Sequeiros, J.L. Moya Mur, E. Navas, M.P. Martin Davila, S. Del Prado, A. Lorente Ros, J.M. Vieitez Florez, J. Rodriguez-Roda Stuart, C. Fernandez-Goffin, J.L. Zamorano Gomez (Madrid, ES)
- Transcatheter aortic valve replacement in patients with aortic stenosis and mitral regurgitation** P1128  
M. Munoz-Garcia, E. Munoz-Garcia, A.J. Munoz Garcia, F. Carrasco-Chinchilla, A.J. Dominguez-Franco, L. Morcillo-Hidalgo, J.M. Garcia-Pinilla, J.H. Alonso-Briales, J.M. Hernandez-Garcia, M.F. Jimenez-Navarro (Malaga, ES)

## Posters Sessions

- The prognostic role of late gadolinium enhancement in patients with aortic stenosis: a systematic review and meta-analysis** P1129  
 C. Papanastasiou, D. Kokkinidis, P. Kampaktis, I. Bikakis, D. Cunha, E. Oikonomou, J. Greenwood, M. Garcia, T. Karamitsos (Thessaloniki and Athens, GR; New York and Iowa City, US; Leeds, GB)
- Impact of significant mitral regurgitation for predicting hospital readmission for heart failure after transcatheter aortic valve implantation** P1130  
 Y. Tamura, Y. Konami, H. Suzuyama, K. Kodama, H. Yasuda, E. Taguchi, Y. Horibata, T. Sakamoto (Kumamoto, JP)
- Pulmonary hypertension is a poor long-term prognostic factor in patients with primary mitral regurgitation, not in patients with secondary mitral regurgitation** P1131  
 J.H. Lee, J.H. Park, H.J. Kwon, B.S. Seo, J.K. Oh, I.W. Seong (Cheongju and Daejeon, KR)
- Central nervous system complications in patients with infectious endocarditis: population characterization and predictors of embolization** P1132  
 A. Briosa, S. Alegria, A.R. Pereira, D. Sebaiti, A. Marques, A.C. Gomes, I. Cruz, R. Miranda, H. Pereira (Lisbon, PT)
- Type 2 diabetes is a strong predictor of mortality in patients with prosthetic valve endocarditis with or without heart failure** P1133  
 M.M. Baluta, E. Panaitescu (Bucharest and Bucharest, RO)
- Outcomes, survival analysis and the role of kidney damage in modeling the risk of adverse outcome in patients with infective endocarditis** P1134  
 A. Pisaryuk, N. Povalyaev, M. Sorokina, A. Balatskiy, E. Kotova, Y.U. Karaulova, M. Efremovtseva, A. Milto, S. Ratchina, A. Safarova, P. Kahktsyan, Z.H. Kobalava (Moscow, RU)

### MYOCARDIAL DISEASE

- Concomitant cardiomyopathies and their association with heart failure in subjects with bicuspid aortic valve** P1135  
 C.Y. Shim, H. Jeong, D. Kim, S.Y. Lee, G.R. Hong, J.W. Ha (Seoul, Goyang and Bucheon, KR)
- Validation of heart failure risk scales in patients with genetically proven idiopathic restrictive cardiomyopathy.** P1136  
 A. Kostareva, V. Bart, A. Polyakova, A. Gudkova, M. Sitnikova (St. Petersburg, RU)
- Prevalence and prognostic impact of non-ischemic late gadolinium enhancement in patients undergoing stress perfusion cardiac magnetic resonance.** P1137  
 C. Grigoratos, I. Gueli, C.T. Arendt, D. Leithner, A. Meloni, C. Nugara, A. Barison, G. Todiere, V.O. Puntmann, G. Novo, A. Pepe, E. Nagel, M. Emdin, G.D. Aquaro (Pisa and Palermo, IT; Frankfurt am Main, DE)
- Differential diagnosis of stress induced cardiomyopathy from anterior myocardial infarction with changing pattern of cardiac enzyme** P1138  
 S.K. Ryu, Y.S. Byun, H. Chung, C.W. Goh, J.Y. Park, S.H. Park, J.W. Choi (Seoul and Chuncheon, KR)
- Characteristics of patients with advanced heart failure managed in a cardiomyopathy expert center** P1139  
 R.-D. Adam, S. Militaru, A. Ionescu, M. Chivulescu, B.A. Popescu, C. Ginghina, R. Jurcut (Bucharest, RO; Brussels, BE; Strasbourg, FR; Oslo, NO)
- Comparison of left ventricular function changes in inflammatory and non-inflammatory dilated cardiomyopathy in the time course** P1140  
 J. Krejci, P. Hude, H. Poloczkova, E. Ozabalova, J. Godava, T. Honek, V. Zampachova, I. Svobodova, J. Jarkovsky, K. Benesova, L. Spinarova (Brno, CZ)
- Efficiency of plasma exchange in patients with immune mediated dilated cardiomyopathy and arrhythmias** P1141  
 V. Kulikova, A.V. Nedostup, O.V. Blagova, V.A. Zaidenov, A.G. Kupriyanova, I.A. Nechaev, A.A. Ragimov (Moscow, RU)
- Strain analysis reveals subtle systolic dysfunction in «confirmed» and «suspected» myocarditis with normal LVEF: a cardiac magnetic resonance study** P1142  
 A. Cannata, A. Porcari, M. Merlo, L. Crosera, D. Stolfo, M. Cittar, M. Della Paolera, G. Barbati, L. Pagnan, M. Belgrano, M.A. Cova, P. Gentile, A. Aleksova, G. Vitrella, G. Sinagra (Trieste, IT)

## Posters Sessions

- Biomarkers of iron status (transferrin saturation, serum ferritin) in the course of acute myocarditis: relations with neurohormonal activation, cardiac dysfunction and clinical recovery** P1143  
 P. Franczuk, A. Kosiorek, M. Tkaczyszyn, M. Drozd, A. Zapolska, T. Walczak, K. Kulej-Lyko, N. Sidorowicz, A. Soltowska, W. Banasiak, J. Jaroch, P. Ponikowski, E.A. Jankowska (Wroclaw, PL)

### CARDIOVASCULAR SURGERY - TRANSPLANTATION

- Long-term survival after heart transplantation or implantation of mechanical circulatory support in patients with advanced heart failure due to giant cell myocarditis or cardiac sarcoidosis** P1145  
 E. Bobbio, S. Esmaily, S. Bartfay, E. Bollano, P. Dahlberg, G. Dellgren, K. Karason (Goteborg, SE)
- Anti-thymocyte globulin induction therapy usage is not associated with short and long-term survival differences in heart transplant patients** P1146  
 S. Jia, D. Nagpal, L. Goldraich, R.A. Davey, R. Mckelvie, S. De, S.J. Smith (London, CA)
- Does the age of the recipient influence the survival of the heart transplant?** P1147  
 R.L.V. Lopez-Vilella, I.S.L. Sanchez-Lazaro, M.E. Ezzitouny, S.L.E. Lozano Edo, L.M.D. Martinez Dolz, L.A.B. Almenar Bonet (Valencia, ES)
- Usefulness of the biomarker CA125 in the diagnosis of acute cellular rejection in allogeneic heart transplantation** P1148  
 R.L.V. Lopez-Vilella, I.S.L. Sanchez-Lazaro, C.A. Aguado, N.M.F. Manchenyo Franch, M.E. Ezzitouny, S.L.E. Lozano Edo, B.L. Laiz, L.M.D. Martinez Dolz, L.A.B. Almenar Bonet (Valencia, ES)
- The impact of ischemic time and procurement distance on long-term survival following heart transplantation in a tertiary care center: 30 years of experience** P1149  
 S. Jia, D. Nagpal, L. Goldraich, P. Pflugfelder, R.A. Davey, R. Mckelvie, S. De, X. Cai, S.J. Smith (London, CA)

### REHABILITATION AND SPORTS CARDIOLOGY

- V-slope as a marker of multivessel disease in the ergometry with oxygen consumption** P1150  
 J. Balaguer Recena, N.G. Uribe Heredia, E. Novo Garcia, L.G. Piccone Saponara, H. Alvaro Fernandez, J. Benitez Peyrat, C. Solorzano Guillen, E. Vallejo Sacristan, M.E. Jimenez Martinez, L. Gil Fraguas, B. Garcia Magallon, C. Toran Martinez, B. Seidelberger, A. Castillo Sandoval, J.L. Garcia Gonzalez (Guadalajara and Ciudad Real, ES)
- Age-specific reference values for cardiorespiratory fitness in healthy Koreans compared to Western nations** P1151  
 Y. Park, W.Y. Jang, W.H. Kim, E.J. Kim, D.O. Kang, E.J. Park, J.O. Na, C.U. Choi, J.W. Kim, S.W. Rha, C.G. Park, H.S. Seo, S.J. Park (Seoul, KR)
- Evaluation of the cardiac efficiency to the exercise in patients with chronic bronchopathy and ischemic cardiomyopathy** P1152  
 N.G. Uribe Heredia, R. Arroyo Espligueroi, L.G. Piccone Saponara, H. Alvaro Fernandez, E. Vallejo Sacristan, M.E. Viana Llamas, J.L. Benitez Peyrat, C. Solorzano Guillen, M.E. Jimenez Martinez, B. Garcia Magallon, C. Toran Martinez, A. Castillo Sandoval, M.A. San Martin Gomez, I. Rodriguez Guinea, J.L. Balaguer Recena (Guadalajara and Ciudad Real, ES)
- Comparison of the bioelectrical impedance analyses of body composition before and after cardiac rehabilitation in patients with ischemic heart disease** P1153  
 M. Kalcik, M. Yetim, T. Dogan, L. Bekar, O. Karaarslan, I. Ekinozu, M.M. Yilmaz, T. Gokdeniz, Y. Karavelioglu, Z. Golbasi (Corum and Corum, TR)
- Impact of combined multimodal approach (recommended pharmacological treatment, cardiovascular rehabilitation and dietary compliance) in rehospitalization and morbidity rate of heart failure patients.** P1154  
 M. Petridou, I. Kanellos, A. Antoniou, E. Matopoulou, F. Papaioannou, S. Daios, P. Skantzis, N. Tsokos, G. Tsinopoulos, M. Giannadaki, C. Goudis, D. Skoutas, I. Laoutaris, S. Handanis, C. Savopoulos (Serres, Thessaloniki and Athens, GR)

## Posters Sessions

- Usefulness of exercised based cardiac rehabilitation in heart failure patients with chronic total occlusions** P1155  
 I. Burazor, M. Moraca, A. Kovacevic, S. Juricic, A. Djordjevic Dikic, S. Stojkovic, P. Seferovic, B. Beleslin, Y. Adler, D. Constatinos, M. Ostojic (Belgrade, RS; Tel Hashomer, IL; Athens, GR)
- Influence of the gender in response to phase II of the cardiac rehabilitation program. evaluation of aerobic capacity and analytical parameters** P1156  
 N.G. Uribe Heredia, J. Balaguer Recena, L.G. Piccone Saponara, R. Arroyo Espiguero, M. Viana Llamas, H. Alvaro Fernandez, E. Vallejo Sacristan, M.E. Jimenez Martinez, E. Diaz Caraballo, B. Tarancon Zubimendi, S. Moreno Reviriego, M.A. San Martin Gomez, I. Rodriguez Guinea, C. Solorzano Guillen, J. Benitez Peyrat (Guadalajara and Ciudad Real, ES)
- Cardiac rehabilitation in patients with systolic dysfunction, a wasted opportunity?** P1157  
 R. Dalmau, A. Castro, S. Espinosa, L. Martin Polo, I. Marco, C. Merino, A. Iniesta, S. Rosillo, O. Gonzalez, L. Pena, A. Velez, H. Arranz, A. Araujo, E. Lopez De Sa, J.L. Lopez Sendon (Madrid, ES)

### CARDIOVASCULAR DISEASE IN SPECIAL POPULATIONS

- Trastuzumab associated cardiotoxicity in breast cancer patients: a report after 4 years of follow up at a specialized centre** P1158  
 M.E. Tettamanti, I. Gimenez, C. Chacon, J. Nadal, V. Costanzo, A. Nervo, F. Losco, R. Chacon, D.A. Santos (Buenos Aires, AR)
- Body mass index and resting heart rate in unselected prospectively enrolled cancer patients** P1159  
 S. Hadzibegovic, L.-C. Lueck, P. Weinlaender, A. Lena, J. Eucker, S. Von Haehling, U. Landmesser, S.D. Anker, M.S. Anker (Berlin and Göttingen, DE)
- Echocardiographic assessment in cancer patients** P1160  
 A. Lena, P. Weinlaender, L.-C. Lueck, S. Hadzibegovic, U. Keller, S. Von Haehling, U. Landmesser, S.D. Anker, U. Wilkeshoff, M.S. Anker (Berlin and Göttingen, DE)
- Troponin T, NT-proBNP and CRP: prognostic markers of mortality in cancer patients** P1161  
 L.-C. Lueck, A. Lena, S. Hadzibegovic, P. Weinlaender, A. Letsch, M. Karakas, U. Landmesser, S.D. Anker, M.S. Anker, S. Von Haehling (Berlin, Hamburg and Göttingen, DE)
- Biomarkers and imaging modalities for the diagnosis of cardiotoxicity after chemotherapy; data from the greek multicenter cardio-oncology registry** P1162  
 A. Ntalianis, N. Zografos, E. Roumpi, A. Tsiakou, T. Mpixiniotis, E. Aggelopoulou, M. Marketou, A. Koutsoukis, I. Goudevenos, I. Kalafatis, P. Kalogeropoulos, G. Avgeropoulos, F. Parthenakis, M.A. Dimopoulos, I. Paraskevaidis (Athens, Ioannina, Thessaloniki and Heraklion, GR)
- Echocardiographic assessment of right ventricle function in HIV-infected patients during 1 year follow up.** P1163  
 N. Kasinos, A. Destounis, M. Karakosta, P. Zahos, C.H. Tountas, K. Englezopoulos, M. Vassaki, S. Mitsiadis, E. Grigoraki, S. Lygidakis, K. Yiangou, A. Theodosis-Georgilas, G. Chrysos, D. Beldekos, E. Pisisimis (Piraeus, GR)
- Chloroquin cardiomyopathy manifested as hypertrophic cardiomyopathy** P1164  
 H. Takacs, V. Nagy, B. Ivanyi, T. Forster, R. Sepp (Szeged, HU)
- Red cell distribution width: potential biomarker of the risk of right ventricular involvement in systemic sclerosis** P1165  
 S. Jaksic Jurinjak, D. Delic Brkljacic, I. Jurin, B. Starcevic, J. Morovic Vergles (Zagreb, HR)
- Incidence of cancer in patients with heart failure with reduced ejection fraction: a single-center long-term follow up study.** P1166  
 V. Martinez Mateo, M.J. Fernandez-Anguita, L. Cejudo Del Campo, E. Martin Barrios, A.J. Paule (Alcázar De San Juan, Ciudad Real, Spain, ES)
- Usefulness of global longitudinal strain as predictor for sub-clinical left ventricular dysfunction and all-cause mortality among active cancer patients** P1167  
 L.M. Laufer-Perl, J. Arnold, L. Mor, N. Amrami, M. Derakhshesh, J. Sherez, G. Keren, Y. Arbel, Y. Topilsky, Z. Rozenbaum (Tel Aviv, IL)
- Cardiac immune related toxicity: a single center experience** P1168  
 N. Salterain, E. Castanon, P. Rodeiro, J. Ibero, E. Iglesias, J.J. Gavira (Pamplona, ES)



## Posters Sessions

- Implementing a novel clinical scientist led cardio-oncology service in everyday clinical practice.** P1169  
J. Smith, J. Draper, K. Victor, S. Kapetanakis (London, GB)
- Incidence of cardiotoxicity over time in patients with HER2-positive metastatic breast cancer on long term treatment with trastuzumab and the potential risk factors.** P1170  
N. Bouwer, T.G. Steenbruggen, H.N. Rier, J.J.E.M. Kitzen, K.J. Beelen, A.J. Ten Tije, P.C. De Jong, J.C. Drooger, C. Holterhues, J. Van Rosmalen, M.J.M. Kofflard, E. Boersma, G.S. Sonke, M.-D. Levin, A. Jager (Dordrecht, Amsterdam, Delft, Breda, Nieuwegein, Rotterdam and Den Haag, NL)
- Cardiovascular outcome of breast cancer patients with concomitant radiotherapy and chemotherapy: a 10-year multicenter cohort study** P1171  
J.C. Youn, D.Y. Kim, M.S. Park, S.K. Lee, S.W. Choi, S. Han, K.H. Ryu (Hwaseong and Seoul, KR)
- Role of immunoglobulins in children with pediatric malignancies developing myocardial dysfunction with septic shock.** P1172  
R. Seth, S. Seth (New Delhi, IN)

### PHARMACOLOGY AND PHARMACOTHERAPY

- Optimal administration timing of thiazide diuretics for sequential nephron blockade in cardiovascular patients receiving loop diuretics** P1173  
J. Fallon, M. Roth, S.P. Dunn (Charlottesville, US)
- Super-response to sacubitril valsartan: prevalence and clinical profile** P1174  
C. Moliner Abos, M. Rivas-Lasarte, J. Pamies Besora, P. Fluvia Bruges, E. Sole-Gonzalez, S. Mirabet, L. Lopez Lopez, V. Brossa, N. Mesado, M.J. Pirla, E. Roig, J. Alvarez-Garcia (Barcelona, ES)
- Who ARNI the best responders among patients with LVEF<35%?** P1175  
J. De Almeida, S. Martinho, R. Baptista, F. Franco, S. Costa, M. Ferreira, M. Robalo, C. Ferreira, C. Domingues, P. Alves, M. Costa, M. Costa (Coimbra and Braga, PT)
- Rationale, design and baseline characteristics of the Personalised prospective comparison of ARni with ArB in patients with natriuretic peptide eLEvation (PARABLE) randomized controlled trial** P1176  
M. Ledwidge, F. Ryan, C. Watson, J. Gallagher, M. Ferre, R. Pharithi, M. Barrett, D. Murphy, J. Dodd, K.M. McDonald (Dublin, IE)
- Effect of empagliflozin on hydroelectrolytic balance in patients with heart failure with reduced ejection fraction** P1177  
M. Abellas Sequeiros, S. Del Prado, G. Alonso Salinas, J.M. Vieitez Florez, A. Lorente Ros, E. Gonzalez Ferrer, S. Fernandez, M. Castillo Orive, I. Rayo Llerena, J.L. Zamorano Gomez (Madrid, ES)
- Iron therapy in heart failure with preserved vs depressed ejection fraction** P1178  
G.L. Alonso Salinas, S. Hernandez Jimenez, S. Del Prado Diaz, E. Gonzalez Ferrer, M. Castillo Orive, S. Fernandez Santos, I. Rayo Llerena, J.M. Vieitez Florez, J.D. Sanchez Vega, M. Abellas Sequeiros, M. Pascual Izco, J.L. Zamorano (Madrid, ES)
- Acetazolamide as a potent chloride-regaining diuretic: its short- and long-term effects in cardiovascular patients** P1179  
H. Kataoka (Oita, JP)
- Magnesium orotate for the treatment of heart failure in pregnant patients with unoperated atrial or ventricular septal defect** P1180  
I. Gaisin, N. Maximov, L. Shilina, R. Valeeva, Z. Vavilkina, E. Smirnova (Izhevsk, RU)
- Management of antithrombotic/antiplatelet therapy in patients with aortic stenosis undergoing transcatheter aortic valve replacement** P1181  
M. Munoz-Garcia, E. Munoz-Garcia, A.J. Munoz Garcia, J.M. Garcia-Pinilla, L. Morcillo-Hidalgo, A. Robles Mezcuca, J.H. Alonso-Briaies, J.M. Hernandez-Garcia, M.F. Jimenez-Navarro, J.J. Gomez-Doblas (Malaga, ES)
- Safety, pharmacodynamic and pharmacokinetic characterisation of vericiguat: key results from six phase I studies in healthy subjects** P1182  
M.-F. Boettcher, D. Thomas, W. Mueck, S. Loewen, E. Arens, K. Yoshikawa, J. Liu, C. Becker (Wuppertal and Essen, DE; Osaka, JP; Beijing, CN)
- Pharmacodynamic and pharmacokinetic interaction profile of vericiguat** P1183  
M.-F. Boettcher, S. Loewen, M. Gerrits, C. Becker (Wuppertal and Essen, DE; New Jersey, US)

## Posters Sessions

- Pharmacodynamic interaction study of a long-acting nitrate co-administered with vericiguat in patients with stable coronary artery disease** P1184  
 M.-F. Boettcher, G. Mikus, D. Trenk, H.-D. Duengen, F. Donath, N. Werner, M. Karakas, N. Besche, D. Schulz-Burck, M. Gerrits, J. Hung, C. Becker (Wuppertal, Heidelberg, Bad Krozingen, Berlin, Erfurt, Bonn, Hamburg and Essen, DE; New Jersey, US; São Paulo, BR)
- Observational study on the use of non antivitamin K anticoagulants in atrial fibrillation and deep vein thrombosis in the community** P1185  
 G. Gheorghe, C.E. Georgescu, A.S. Hodoroagea, A.G. Florescu, A.C.D. Gheorghe, I.T. Nanea (Bucharest, RO)

### CARDIOVASCULAR NURSING

- Determinants of non-pharmacological compliance in patients with heart failure** P1186  
 N. Swiatoniowska, A. Szymanska-Chabowska, J. Gajek, B. Jankowska-Polanska (Wroclaw, PL)
- Advanced practice providers' utilization of EUROMACS (European registry for patients with mechanical circulatory support) : single center experience** P1187  
 Y.A. Quiaoit, B.L. Lentz, J.L. Lajoie, M.R.M. Molina (Philadelphia, US)
- LVAD-DT: The final destination** P1188  
 J.E. Hupcey, L. Kitko, J.H. Gilchrist, I.C. Gilchrist (University Park, Durham and Hershey, US)
- Socio-clinical variables affecting the level of self-care in elderly patients with heart failure and cognitive disorders** P1189  
 B. Prochota, K. Szwamel, I. Uchmanowicz (Olesno, Opole and Wroclaw, PL)
- Caregiver burden, stress, depression, and quality of life in family caregivers of patients with heart failure** P1190  
 J.A. Ahn (Suwon, KR)
- Intervention algorithm for the heart logic device for nurse specialized in hf** P1191  
 M. Perez Serrano, J.G.A. Josebe Goirigolzarri Artaza, D.E.V. Daniel Enriquez Vazquez, C.N.P. Carlos Nicolas Perez, M.F.E. Marcos Fernandez Escarbajal, R.B.F. Ramon Bover Freire, C.M.M. Carlos Macaya Miguel, C.R.R. Concepcion Ramirez Ramos, M.G.B. Marcos Gonzalez Barja, N.R.L. Noemi Ramos Lopez, A.J.B. Adrian Jeronimo Baza, E.M.G. Eduardo Martinez Gomez, I.V.C. Isidre Vilacosta, P.M.S. Paula Martinez Santos (Madrid, ES)
- The HEART path, Help with Adaptation and Rehabilitation Trajectory** P1192  
 C.J. Wulffraat, A.C. Hofman-Tanis (capelle aan den ijssel, NL)
- Health literacy, knowledge, treatment adherence and self-care in heart failure in a middle income country** P1193  
 L.L. Pedraza, S.C.S. Pokorski, B.B. Machado, E.B. Ferro, R.H. Souza, F.S. Caetano, E.R. Rabelo-Silva (Porto Alegre, BR)
- Evaluation of Self-Care Improvement after admission in a Heart Failure Clinic** P1194  
 A. Ferreira, A. Neto, D. Seabra, I. Oliveira, P. Silva, M. Soares, S. Ferreira, S. Poiares, M. Meira, A. Andrade (Penafiel, PT)
- Assessment of quality of life of patients followed in a heart failure clinic** P1195  
 P. Silva, D. Seabra, A. Neto, I. Oliveira, S. Ferreira, A. Ferreira, M. Soares, S. Poiares, M. Meira, A. Andrade (Penafiel, PT)
- The Dutch multidisciplinary guideline 'Palliative care for patients with heart failure'** P1196  
 M.S.A. Aertsen-Van Der Kuip, Y.M.P. Engels, C.M.H.B. Lucas, A. De Graeff, C.W. Middeljans-Tijssen, R. Starmans, M.W.F. Van Leen, J. Van Erp, R. Tabak, L. Bellersen (Utrecht, Nijmegen, Leiderdorp, Doetinchem, Den Haag and Breda, NL)
- Health status assessment of patients followed in a Heart Failure Clinic** P1197  
 P. Silva, I. Oliveira, A. Neto, D. Seabra, S. Ferreira, M. Soares, A. Ferreira, S. Poiares, M. Meira, A. Andrade (Penafiel, PT)
- New concept of triage in patients with heart failure due to specialized nursing** P1198  
 M.P.S. Monica Perez Serrano, J.G.A. Josebe Goirigolzarri Artaza, D.E.V. Daniel Enriquez Vazquez, C.N.P. Carlos Nicolas Perez, M.F.E. Marcos Fernandez Escarbajal, R.B.F. Ramon Bover Freire, C.M.M. Carlos Macaya Miguel, C.R.R. Concepcion Ramirez Ramos, M.G.B. Marcos Gonzalez Barja, N.R.L. Noemi Ramos Lopez, A.J.B. Adrian Jeronimo Baza, E.M.G. Eduardo Martinez Gomez, I.V.C. Isidre Vila Costa, P.M.S. Paula Martinez Santos (Madrid, ES)

## Posters Sessions

### CLINICAL CASES

- Acute hypertensive heart failure - when the etiology is misleading** P1199  
A. Burducea, D.O. Geavlete, L. Predescu, L. Antohi, I. Kulcsar, E. Stoica, R. Radu, S. Balanica, O. Chioncel (Bucharest, RO)
- Wild type TTR amyloidosis disguised as concentric hypertensive left ventricular hypertrophy** P1200  
A. Siama, S. Giannitsi, E. Hamodraka, A. Tsoukas, A.J. Manolis (Athens, GR)
- «Burned-out» hypertrophic obstructive cardiomyopathy presenting as acute coronary syndrome** P1201  
A. Siama, E. Hamodraka, P. Fountoulakis, A. Kalogeris, A. Tsoukas, A.J. Manolis (Athens, GR)
- Successful antiarrhythmic therapy with combination of quinidine and mexiletine in Purkinje-related ventricular arrhythmia, persistent atrial tachyarrhythmia and DCM associated with R814W SCN5A mutation** P1202  
J. Zakrzewska-Koperska, Z.T. Bilinska, G.T. Truszkowska, M. Fraszczyk, K. Kalin, K. Guzek, A. Hasiec, M. Stepien-Wojno, M. Orczykowski, R. Bodalski, P. Urbanez, R. Baranowski, L. Szumowski, R. Ploski, M. Bilinska (Warsaw, PL)
- Clinical case of effective treatment of ventricular arrhythmias with ranolazine in a 32-year-old woman with unclear aetiology cardiac inflammation** P1203  
M.I. Chashkina, M.V. Serova, D.A. Andreev, A.A. Bykova, Z.K. Salpagarova, D.F. Mesitskaya, F.Y. Kopylov, A.L. Syrkin (Moscow, RU)
- Young patient with syncope during exercise: should we be worried?** P1204  
M.L. Barbu, D. Pasoiu, B. Suran, M. Buzoiu, A. Trandafir, A. Gurghean, R. Ciomag, C. Homentcovschi, D. Spataru, C. Siliste, R. Siliste (Bucharest, RO)
- A case of brachial arteriovenous fistula secondary to venipuncture** P1205  
T.H. Phan (Ho Chi Minh City, VN)
- Patient and caregiver contribution in self-care heart failure - clinical case** P1206  
M.H. Lisiak, M. Wleklík, I. Uchmanowicz (Wroclaw, PL)
- Case report: peripherally inserted central catheter in patient with heart failure and cardiac implantable electronic device in catheterization laboratory** P1207  
E.R. Rabelo-Silva, M. Junges, R.N. Ceratti, J.A. Augustin, L.A. Hansel, P.M.N. Bairros, P.C. Cardoso, I.D. Brum (Porto Alegre, BR)
- An unusual case of infective endocarditis with Staphylococcus warneri, presenting as heart failure** P1208  
R. Diaconu, V. Ponomariov, O. Mirea, I. Donoiu, O. Istratoaie (Craiova, RO; Southampton, GB)
- Emerging cardio-oncology therapeutics: the role of ivabradine and levosimendan in acute heart failure reversible toxicity** P1209  
G. El-Khoury, A. Bazarbachi, H. Skouri (Beirut, LB)
- Heart failure and tachycardiomyopathy in a patient taking ibrutinib: a novel tyrosine kinase inhibitor.** P1210  
M. Codina, G. Ramirez-Escudero, N. Garcia Ibarrondo, A. Manzanal Rey, I. Bravo Martinez, G. Aurrekoetxea Bajeneta, P. Mendoza Cuartero, C. Asla Ormazza, M. Castellano Alcalde, J.A. Uriarte Elguezabal, J.A. Marquez Navarro, R. Martinez De Bourio Uriarte, A. Arregui Lopez, M.F. Arcocha Torres, L. Ruiz Gomez (Bilbao, ES)
- The case of primary systemic amyloidosis with a clinical picture of congestive heart failure refractory to symptomatic therapy** P1211  
I.A. Leonova, S. Boldueva, I. Yarmosh (St-Petersburg, RU)
- Right ventricular failure and severe functional tricuspid regurgitation caused by atrial fibrillation** P1212  
S. Collins, D. Haas, R. Azad (Abington, US)
- Left ventricular non-compaction and coronary artery disease: what's causing systolic dysfunction? a case report** P1213  
C. Rovera, E. Franco, C. Moretti (Chivasso, IT)
- Haemochromatosis: an under-recognised and treatable cause of dilated cardiomyopathy** P1214  
S. Cesini, A. Kydd, S. Bhagra, M. Besser, B. Griffiths, S. Pettit (Cambridge, GB)
- Constrictive pericarditis: a forgotten cause of heart failure** P1215  
C. Pemberthy Lopez, P.J. Espinosa Martinez, J.C. Rendon Isaza, C.I. Saldarriaga Giraldo (Medellin, CO)

## Posters Sessions

- Difficult diagnosis of co-existence of constrictive pericarditis and cardiomyopathy due to rheumatoid arthritis** P1216  
 M. Sugahara, H. Uemura, K. Azuma, R. Kawakami, Y. Okuhara, M. Asakura, M. Mitsuno, M. Ishihara, S. Hirota, T. Masuyama (Nishinomiya, JP)
- A cause of left ventricle dilatation and dysfunction which may benefit from aetiological therapy** P1217  
 G. Crasmariu, S. Onciul, L. Calmac, M. Dorobantu (Bucharest, RO)
- Coronary artery disease in a systemic sclerosis sine scleroderma female patient** P1218  
 I. Tilea, A. Varga, C.F. Suci, D.N. Petra, D.G. Iancu (Targu Mures, RO)
- The clinical case of cardiac amyloidosis associated with multiple myeloma** P1219  
 E. Tsoi, Y.U.V. Rogovskaya, S.V. Demyanov, V.V. Ryabov (Tomsk, RU)
- Numb Chin syndrome, intracardiac mass in right ventricle and pulmonary nodules as metastasis of diffuse large B-cell lymphoma (DLBCL) of non-germinal center (non-GC) type** P1220  
 A.M. Culebras Lopez, C. Ganan Gomez, B. Munoz Calvo, P. Rodriguez Doyaguez, J.A. Garcia Lledo (Alcala de Henares, ES)
- Takotsubo-like syndrome in a patient with BRAF mutated metastatic lung cancer** P1221  
 L.C. Belarte Tornero, A. Taus Garcia, M. Ble Gimeno, T. Martos Cardenas, S. Servitja Tormo, E. Gimeno Vazquez, A. Salar Silvestre, X. Sanz Latiesas, F. Martinez Medina, A. Miguel Gutierrez, E. Sole Gonzalez, S. Ruiz Bustillo, N. Farre Lopez, J. Marti Almor (Barcelona, ES)
- Acute heart failure in a patient with cervical cancer** P1222  
 S. Dakova, K. Ramshev (Sofia, BG)
- The obsessional synovial sarcoma** P1223  
 J. Pan, C.J. Gao, H. Tang, Y.G. Wang (Shanghai, CN)
- Successful video-assisted thoracoscopic atrial appendectomy for a 4-year-old child with intractable atrial tachycardia with tachycardia-induced cardiomyopathy** P1224  
 H.W. Kwon, E.J. Bae, J.G. Kwak (Seoul, KR)
- High degree AV block and ventricular septal rupture unmasking silent myocardial infarction.** P1225  
 D. Cocco, D. Congia, A. Pani, G. Binaghi, E. Serra, G.S. Fele, M. Melis, P.P. Orru, G. Zedde, M. Manconi, A. Boi, E.M. Cirio, P. Manca, M. Corda, M. Porcu (Cagliari, IT)
- Takotsubo cardiomyopathy as a rare complication of guillain-barre' syndrome** P1226  
 R. Stopar, B. Rojc, B. Mahne, T. Ravnikar, N. Cernic-Suligoj, A. Kupresan, S. Kariz (Izola, SI)
- Native aortic valve endocarditis mimicking meningitis in a rare setting** P1227  
 I. Refatllari, A. Banushi, E. Rapushi, E. Ramosaco, K. Krakulli, E. Bejko (Tirana, AL)
- A case of acute myocarditis due to 5-fluorouracil cardiotoxicity.** P1228  
 J.D. Sanchez Vega, E. Rajjoub Al-Mahdi, G.L. Alonso Salinas, M. Pascual Izco, J.M. Vieitez Florez, M. Plaza Martin, R. Hinojar Baydes, C. Fernandez-Golfín, A. Urena, A. Garcia De Vicente, M.A. Fernandez, M. Sanmartin Fernandez, J.L. Zamorano (Madrid, ES)
- Takotsubo syndrome complicated by left ventricular outflow tract obstruction in a woman with chronic beta-blocker therapy** P1229  
 G. Garau, D. Cocco, C. Soro, C.S. Centorbi, L. Craba, R. Montisci, L. Meloni (Cagliari, IT)
- Fulminant myocarditis: should we wait for recovering? Biopsy says no** P1230  
 S. Vazquez, B. Keller, J.M. Dominguez, G. Spitaleri, F. Loiacono, F. Perez Villa, M. Farrero, A. Castel (Barcelona, ES)
- Rare cause of acute heart failure in a young patient** P1231  
 E. Han, B. Oeztuerk, S. Kufova, G.J. Wengert, R. Badr Eslam, J. Bergler-Klein (Vienna, AT)
- Leptospirosis: an unusual cause of multiorgan failure and severe cardiac involvement with impressively wide QRS complex** P1232  
 A. Kissopoulou, M. Carlsson, S. Kyrama Nijm (Jonkoping, SE)
- Postpartum acute heart failure in a patient with bicuspid aortic valve** P1233  
 N. Avram, G.D. Baltag, S. Guberna, R. Brezeanu, A. Lacraru, A. Avram, I. Dimitriu, V. Chioncel, I. Calangea, A. Catana, A. Teasa, A. Ion, C.J. Sinescu, C.L. Andrei (Bucharest, RO)

## Posters Sessions

### BASIC SCIENCE - CARDIOMYOPATHIES

- Basic science - Cardiomyopathies - Poster Discussant - 10:00-11:00.** P1234  
Carlo Gabriele Tocchetti (Napoli, IT)
- Selenium deficiency impairs mitochondrial function in human cardiomyocytes and is associated with worse clinical outcomes in patients with heart failure** P1235  
N. Bomer, N. Grote Beverborg, M.F. Hoes, J. Ijmker, D.J. Touw, A.A. Voors, P. Van Der Meer (Groningen, NL)
- Gene therapy with phosphodiesterase 4B in a murine model of pressure overload-induced cardiac hypertrophy** P1236  
N. Pavlaki, V.O. Nikolaev (Hamburg, DE)
- Trace ions in failing hearts: only iron, or also others?** P1237  
B. Kozłowska, B. Sochanowicz, H. Polkowska-Motrenko, M. Kruszewski, M. Kusmierczyk, P. Leszek (Warsaw, PL)
- Rescue of a proarrhythmic CaMKII-transgenic heart failure mouse model by selective knock-out of sodium channel Nav1.8** P1238  
P. Bengel, C. Krekeler, S. Ahmad, P. Tirilomis, K. Toischer, N. Dybkova, L.S. Maier, G. Hasenfuss, S. Sossalla (Göttingen and Regensburg, DE)
- Intact DNA repair in differentiated cardiomyocytes is essential for maintaining cardiac function in response to physiological as well as pathological stimuli** P1239  
M. De Boer, M. Te Lintel Hekkert, I. Krabbendam-Peters, J.H.J. Hoeijmakers, D.J. Duncker (Rotterdam, NL)
- Review of the protective effects of Compound 21 and valsartan in iso-induced heart failure in rats** P1240  
Z. Ulutas, T. Kivrak, O. Ozhan, N. Vardi, H. Parlakpinar, B. Ates, N. Ermis (Elazig and Malatya, TR)
- Distinct signalling pathways mediated phosphorylation of sarcomere proteins in the right and left ventricle contribute to diverse cardiac dysfunction in the failing heart** P1241  
A. Kovacs, S. Pabel, M. Herwig, D. Kolijn, M. Waddingham, E. Robinson, S. Van Linthout, J. Barta, Z. Csanadi, A. Toth, Z. Papp, S. Heymans, C. Tschope, S. Sossalla, N. Hamdani (Bochum, Regensburg and Berlin, DE; Amsterdam and Maastricht, NL; Debrecen, HU)
- Single cell mechanics in failing heart: role of microtubules and mitochondria re-arrangement** P1242  
P. Swiatłowska, J. Sanchez-Alonso, P. Wright, S. Bello, P. Novak, J. Gorelik (London, GB)
- Circulating NEP concentrations and activity in the low-, medium- and high-renin HFrEF phenotypes** P1243  
S. Prausmueller, H. Arfsten, J.F. Novak, A. Cho, G. Gollasch, P.E. Bartko, N. Pavo, M. Huelsmann (Vienna, AT)
- Inhibition of apoptosis signal-regulating kinase 1 ameliorates cardiac dysfunction by reducing hypertrophy and fibrosis in a rat model of cardiorenal syndrome** P1244  
F. Savira, B.H. Wang, A.J. Edgley, H. Krum, D.J. Kelly, A.R. Kompa (Melbourne, AU)
- Polymorphic variants and the expression level of the Ca(2+)-ATPase SERCA2a and ryanodine receptors genes are associated with systolic myocardial dysfunction** P1245  
E. Muslimova, T. Rebrova, S.H. Ahmedov, S. Afanasiev (Tomsk, RU)
- Clinical, humoral and hemodynamic predictors of cardiac fibrosis in advanced heart failure** P1246  
K. Kodziszewska, S. Szymanska, A. Drohomirecka, W. Smigielski, P. Leszek (Warsaw, PL)
- Activation of Toll Like Receptor 4 (TLR4) promotes cardiomyocyte apoptosis and fibrosis through SIRT2-dependent p53 deacetylation** P1247  
P. Kataré, H. Nizami, P. Bugga, A. Dinda, S. Banerjee (Faridabad and New Delhi, IN)
- Inhibition of myeloperoxidase in an obese/hypertensive mouse model attenuates obesity and liver damage, but not cardiac remodeling** P1248  
A. Piek, W. Du, Z. Wang, D.P.Y. Koonen, E. Lindtstedt, E. Michaelsson, R.A. De Boer, H.H.W. Sillje (Groningen, NL; Gothenburg, SE)
- Correlation between myofilament Ca<sup>2+</sup> sensitivity and left ventricular contractility parameters during the progression of pressure overload-induced left ventricular myocardial hypertrophy** P1249  
M. Ruppert, B. Bodi, S. Korkmaz-Icoz, S. Loganathan, L. Lehmann, A. Olah, B.A. Barta, A. Sayour, B. Merkely, M. Karck, Z. Papp, G. Szabo, T. Radovits (Budapest and Debrecen, HU; Heidelberg, DE)

## Posters Sessions

- Circulating relaxin-1 is a surrogate marker of myocardial fibrosis and left ventricular diastolic function in HFREF** P1250  
 E. Gara, J. Simon, G.Y. Csiko, T. Radovits, G. Foldes, A. Nemes, M. Husveth-Toth, J. Skopal, B. Merkely (Budapest, HU)
- Natural compound-derived small molecules to target fibrosis** P1251  
 F.P. Kreutzer, A. Meinecke, J. Fiedler, F. Perbellini, S. Mitzka, Q.T. Do, C.M. Terracciano, T. Thum (Hannover, DE; London, GB; Orléans, FR)
- Fibroblasts as inflammatory supporter cells-a matter of tissue origin?** P1252  
 K. Pappritz, M. El-Shafeey, C. Tschoepe, S. Van Linthout (Berlin, DE)
- The secreted matrix glycoprotein ADAMTSL3 is up-regulated in heart failure and mediates anti-fibrotic effects in cardiac fibroblasts** P1253  
 K.B. Rypdal, M.E. Strand, A.O. Melleby, M. Gelazauskaite, C.P. Dahl, T. Tonnessen, L. Gullestad, G. Christensen, I.G. Lunde (Oslo, NO)
- Sepsis-induced myocardial dysfunction is associated with epigenetic modulation of parkinson susceptibility gene DJ-1/PARK7** P1254  
 J. Tsoporis, H. Amatullah, K. Teichert-Kuliszewska, S. Izhar, G. Kabir, T.G. Parker, C. Dos Santos (Toronto, CA)

### BASIC SCIENCE - METABOLISM

- Basic Science - Metabolism - Poster Discussant - 10:00-11:00.** P1255  
 Carsten Tschoepe (Berlin, DE); Johannes Backs (Heidelberg, DE); Nazha Hamdani (Bochum, DE)
- Paricalcitol attenuates heart failure associated with metabolic syndrome: mitochondrial health and cardiometabolic reprogramming** P1256  
 H. Lateef Nizami, P. Katare, P. Prabhakar, R. Adela, P. Chakraborty, S.K. Maulik, S.K. Banerjee (Faridabad and New Delhi, IN)
- Empagliflozin modulates GTP enzyme cyclohydrolase 1 in chronic heart failure** P1257  
 M.C. Asensio Lopez, P. Lopez-Herrera, L. Oltra-Rodriguez, N. Garcia-Carrillo, E. Saura-Guillen, A. Hernandez-Vicente, M.C.A. Sanchez-Perez, N. Fernandez-Villa, D.A. Pascual-Figal, A.M. Lax (Murcia and El Palmar, ES)
- The myocardial metabolism shift results to cardiomyocyte dedifferentiation in dilated cardiomyopathy and chronic heart failure.** P1258  
 O.V. Stepanova, A.D. Voronova, T.G. Kulikova, M.P. Valikhov, I.V. Reshetov, S.N. Tereshchenko (Moscow, RU)
- Empagliflozin ameliorates post-infarction cardiac remodeling through overexpression of GTP enzyme cyclohydrolase 1** P1259  
 A.M. Lax, P. Lopez-Herrera, L. Oltra-Rodriguez, N. Garcia-Carrillo, E. Saura-Guillen, M.C.A. Sanchez-Perez, A. Hernandez-Vicente, M. Veas-Porlan, D.A. Pascual-Figal, M.C. Asensio Lopez (El Palmar and Murcia, ES)
- Pharmacological mitochondrial stabilization to prevents adverse cardiac remodeling following MI using empagliflozin** P1260  
 M.C. Asensio Lopez, L. Oltra-Rodriguez, N. Garcia-Carrillo, E. Saura-Guillen, M.C.A. Sanchez-Perez, A. Hernandez-Vicente, M. Martinez-Herrera, P. Lopez-Herrera, D.A. Pascual-Figal, A.M. Lax (Murcia and El Palmar, ES)
- Age-specific features of cardioprotective action of meldonium under the experimental severe hypoosmolar hyperhydration** P1261  
 N. Demikhova, O. Yarmolenko, O. Prykhodko, V. Bumeister (Sumy, UA)
- Cardioprotective regulation of the mitochondrial permeability transition pores induced by metabolic preconditioning** P1262  
 N. Andelova, I. Waczulikova, B. Szeffova Bacova, V. Farkasova, I. Kancirova, M. Jasova, M. Ferko (Bratislava, SK)
- Restoration of endogenous hydrogen sulfide synthesis decreases the sensitivity of mitochondrial permeability transition pore opening to Ca<sup>2+</sup> and increases of cNOS activity in old rat heart** P1263  
 L.A. Mys, N.A. Strutynska, V.F. Sagach (Kiev, UA)

## Posters Sessions

- Inflammatory state and the development of low triiodothyronine syndrome in advanced heart failure.** P1264  
M. Kabat, M. Fraczek-Jucha, K. Zbierska-Rubinkiewicz, R. Rychlak, J. Nessler, A. Gackowski (Krakow, PL)
- Altered fatty acid oxidation and mitochondrial function and structure in skeletal muscle of patients with preserved and reduced ejection fraction compared to healthy controls** P1265  
T. Bekfani, M. Bekhite Elsaied, M. Westermann, S. Nietzsche, S. Derlien, A. Hamadanchi, J. Nisser, E. Froeb, D. Haase, T. Kretzschmar, U.C. Smolenski, G. Lehmann, G. Wolf, S. Moebius-Winkler, P.C. Schulze (Jena, DE)
- Effects of phosphodiesterase-5A inhibition on right ventricular cardiomyocyte function in diabetic cardiomyopathy** P1266  
L. Martha, B. Bodi, J. Tamas, C. Matyas, A. Toth, B. Merkely, T. Radovits, Z. Papp (Debrecen and Budapest, HU)
- Mitochondrial dysfunction results from the loss of ERK5 in diabetic cardiomyopathy** P1267  
W. Liu (Manchester, GB)
- Post-rest inotropic reaction of the myocardium in dependence on SERCA2a expression level and metabolic enzyme activity in patients with coronary artery disease and diabetes mellitus** P1268  
D. Kondrat'eva, S.A. Afanasiev, M.V. Egorova, S.H.D. Akhmedov, V.M. Shipulin, S.V. Popov (Tomsk, RU)
- CaMKII-HDAC4 interplay governs the function of the diabetic heart** P1270  
J. Grosso, M. Kronlage, M. Dewenter, A.R. Saadatmand, U. Oehl, A.R. Sickmann, H.A. Katus, J. Backs (Heidelberg and Dortmund, DE)
- Circulating micrnas associated with c-type natriuretic peptide in childhood obesity** P1271  
M. Cabiati, V. Bianchi, C. Salvadori, E. Randazzo, G. Federico, S. Del Ry (Pisa, IT)
- Endothelial-to-mesenchymal transition contributes to aortic stiffness in type 2 diabetes mellitus** P1272  
M.S. Hulshoff, I.N. Schellinger, X. Xu, H. Wong, U. Raaz, E.M. Zeisberg (Göttingen, DE)
- Omega-3 fatty acids prevent the development of heart failure with preserved ejection fraction in a preclinical model** P1273  
A. Giraldo, P. Calder, J. Talavera, M.J. Fernandez-Del-Palacio, G. Brooks (Reading and Southampton, GB; Murcia, ES)
- The missing link between the immune system and endothelial dysfunction in HFpEF** P1274  
D.S. Nascimento, E.D. Silva, A.M. Silva, G. Conceicao, D. Miranda-Silva, A. Leite-Moreira, A. Lourenco, I.F. Pires, P. Pinto-Do-O.S.G. Santos (Porto, PT)

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**Rapid Fire 4 - Chronic heart failure - Pharmacology**

Chairperson(s): A. Voors (Groningen, NL)

- |       |   |      |
|-------|---|------|
| 08:30 | <b>Heart failure outcomes in patients with diabetes with and without atrial fibrillation - data from the EMPA-REG OUTCOME study</b>   | 1278 |
|       | M. Bohm, M. Brueckmann, D. Fitchett, J. George, S. Inzucchi, N. Marx, M. Mattheus, A.P. Ofstad, J. Slawik, S. Verma, C. Wanner, B. Zinman (Homburg, Ingelheim, Aachen and Würzburg, DE; Toronto, CA; New Haven, US; Asker, NO)  |      |
| 08:36 | <b>Eligibility for EMPEROR trials in a real-world heart failure population: data from the Swedish heart failure registry</b>  | 1279 |
|       | T. Thorvaldsen, L.H. Lund, U. Dahlstrom, G. Savarese (Stockholm and Linkoping, SE)  |      |
| 08:42 | <b>Metformin reduces myocardial oxygen consumption and improves myocardial efficiency in pre-diabetic heart failure patients</b>  | 1280 |
|       | A.H. Larsen, N. Jessen, H. Norrelund, L.P. Tolbod, H.J. Harms, K. Brosen, N.H. Hansson, J. Frokiaer, S.H. Poulsen, J. Sorensen, H. Wiggers (Aarhus and Odense, DK; Uppsala, SE)   |      |
| 08:48 | <b>Effects of combined uptitration of ACE-inhibitors and beta-blockers in heart failure with reduced ejection fraction</b>  | 1281 |
|       | W. Ouwerkerk, T.H.K. Teng, J. Tromp, W.T. Tay, I. Anand, A.M. Richards, A.A. Voors, C.S.P. Lam (Singapore, SG; Minneapolis, US; Groningen, NL)  |      |
| 08:54 | <b>Angiotensin-converting enzyme inhibitors and angiotensin receptor blockers in heart failure patients with mid-range and preserved ejection fraction and clinical outcomes: from the KCHF Registry</b>  | 1282 |
|       | Y. Yoshikawa, Y. Tamaki, H. Yaku, E. Yamamoto, N. Ozasa, Y. Inuzuka, T. Morimoto, T. Kato, T. Kimura (Kyoto, Tenri, Moriyama and Nishinomiya, JP)   |      |
| 09:00 | <b>The role of candesartan or carvedilol for prevention of anthracycline induced subclinical cardiotoxicity in breast cancer patients.</b>  | 1283 |
|       | M.H. Lee, W.B. Chung, B.J. Song, W.C. Park, B.J. Chae, H.J. Youn (Seoul, KR)  |      |
| 09:06 | <b>Initiation of sacubitril/valsartan in patients with de novo heart failure with reduced ejection fraction: an analysis of the TRANSITION study</b>  | 1284 |
|       | M. Senni, R. Wachter, K. Witte, E. Straburzynska-Migaj, J. Belohlavek, C. Fonseca, C. Mueller, E. Lonn, W. Bao, A. Noe, H. Schwende, D. Butylin, D. Pascual-Figal (Bergamo, IT; Leipzig, DE; Leeds, GB; Poznan, PL; Prague, CZ; Lisbon, PT; Basel, CH; Hamilton, CA; East Hanover, US; Murcia, ES)      |      |
| 09:12 | <b>Sex differences in optimal doses of heart failure medication</b>   | 1285 |
|       | B.T. Santema, W. Ouwerkerk, J. Tromp, I.E. Sama, A. Ravera, V. Regitz-Zagrosek, F. Zannad, K. Dickstein, J.M. Ter Maaten, M. Metra, P. Van Der Meer, D.J. Van Veldhuisen, S. Meyer, C.S.P. Lam, A.A. Voors (Groningen, NL; Singapore, SG; Brescia, IT; Berlin and Oldenburg, DE; Nancy, FR; Bergen, NO) |      |
| 09:18 | <b>Ivabradine improves systolic ejection time in heart failure with reduced ejection fraction by heart rate-dependent and -independent mechanisms - results from the SHIfT echocardiography substudy</b>  | 1286 |
|       | A. Dietl, I. Simon, E. Danner, C. Morbach, S. Stoerk, M. Komajda, K. Swedberg, J.S. Borer, L. Tavazzi, J.C. Tardif, C. Maack, M. Boehm (Würzburg and Homburg, DE; Paris, FR; Gothenburg, SE; New York, US; Cotignola, IT; Montreal, CA)   |      |
| 09:24 | <b>The importance of optimal dosing of ferric-carboxymaltose to treat iron deficiency</b>   | 1287 |
|       | P. Martens, L. Minten, M. Dupont, W. Mullens (Genk, BE)   |      |
| 09:30 | <b>Medical treatment of octogenarians with chronic heart failure: data from CHECK-HF</b>  | 1288 |
|       | G. Linssen, J. Veenis, A. Kleberger, H.P. Brunner-La Rocca, A.W. Hoes, J.J. Brugs (Almelo, Rotterdam, Maastricht and Utrecht, NL)   |      |
| 09:36 | <b>Association between cardiovascular medication and readmission in heart failure patients</b>  | 1289 |
|       | W.J. Kruik-Kolloffel, G.L. Linssen, H.J. Kruik, E.M. Heintjes, K.L.L. Movig, C.J.M. Doggen, J. Van Der Palen (Hardenberg, Hengelo, Utrecht and Enschede, NL)  |      |

## Morning Sessions

08:30 - 10:00 **RAPID FIRE ABSTRACTS** **AGORA 2**

- 09:42 **Repetitive levosimendan infusions for patients with advanced chronic heart failure in the vulnerable post-discharge period: the LeoDOR Trial** 1290  
 G. Polzi, J. Comin-Colet, J.F. Delgado, F. Fedele, M.J. Garcia-Gonzales, F. Gustafsson, J.F. Masip, Z. Papp, S. Stoerk, H. Ulmer, B. Vrtovec, G. Wikstroem, J.F. Altenberger (Innsbruck and Grossgmain, AT; Barcelona, Madrid and San Cristobal, ES; Rome, IT; Copenhagen, DK; Debrecen, HU; Wuerzburg, DE; Ljubljana, SI; Uppsala, SE)
- 09:48 **Higher doses of loop diuretics limit uptitration of inhibitors of the renin-angiotensin system in patients with heart failure and reduced ejection fraction** 1291  
 J.M. Ter Maaten, P. Martens, K. Damman, A.A. Voors, W. Mullens (Groningen, NL; Genk, BE)
- 09:54 **Prediction of dialysis in heart failure patients with diuretic resistance** 1292  
 C. Ge, Y. Zhang, M. Zhu, S. Zhang, Y.M. Liu, C. Chen, Z.B. Zhang, W. Dong (Beijing and Taiyuan, CN; Boston, US)

08:30 - 10:00 **SPECIAL SESSION** **TRIANTI**

### Late breaking trial III - Innovative and device therapy

Chairperson(s): S. Anker (Berlin, DE); A. Coats (Coventry, GB)



08:30 - 10:00 **SYMPOSIUM** **LAMBRAKIS**

### Cardio-Oncology in 2019 -The new frontier Joint Session with ESC Council of Cardio-Oncology

Chairperson(s): A. Lyon (London, GB); R. Asteggiano (Turin, IT)



- 08:30 **Cardio-Oncology - Where have we come from in the last 20 years?** 1299  
 08:52 **How do we deliver Cardio-Oncology services in 2019?** 1300  
 T. Lopez Fernandez (Madrid, ES)
- 09:15 **Can we prevent heart failure in cancer patients?** 1301  
 R. Pudil (Hradec Kralove, CZ)
- 09:37 **How should cancer survivors be followed up after cancer treatment?** 1302  
 A. Cohen-Solal (Paris, FR)

08:30 - 10:00 **DEBATE SESSION** **IONIAN SEA**

### Hot clinical topics in CRT!

Chairperson(s): C. Leclercq (Rennes, FR); F. Ruschitzka (Zurich, CH)

- 08:30 **We don't always need the defibrillator - Pro.** 1303  
 J. Cleland (Glasgow, GB)
- 08:50 **We don't always need the defibrillator - Contra.** 1304  
 C. Linde (Stockholm, SE)
- 09:10 **We don't always need the defibrillator - Rebuttal.** 1305  
 C. Linde (Stockholm, SE); J. Cleland (Glasgow, GB)

## Morning Sessions

08:30 - 10:00

SYMPOSIUM

MITROPOULOS

### A crosstalk between diabetes and heart failure

Chairperson(s): M. Komajda (Paris, FR); M. Huelsmann (Vienna, AT)

08:30	New insights into the epidemiology. G.M.C. Rosano (London, GB)	1306
08:52	Obesity and diabetes: impact on heart failure outcomes. J. Butler (Atlanta, US)	1307
09:15	Therapeutic advances for patients with heart failure and diabetes. P. Seferovic (Belgrade, RS)	1308
09:37	Cardiovascular outcome trials of novel antidiabetic drugs: a critical analysis. M. Pfeffer (Boston, US)	1309

08:30 - 10:00

SYMPOSIUM

SKALKOTAS

### Iron disorders: practical guidance for the clinician

Chairperson(s): Y. Lopatin (Volgograd, RU); S. Anker (Berlin, DE)

08:30	How to assess iron status. S. Von Haehling (Berlin, DE)	1310
08:48	Controversy of iron overload. D.T. Farmakis (Athens, GR)	1311
09:06	Pathophysiology of iron deficiency. E.A. Jankowska (Wroclaw, PL)	1312
09:24	Current evidence from clinical trials. P. Ponikowski (Wroclaw, PL)	1314
09:42	Panel Discussion.	

08:30 - 10:00

SYMPOSIUM

AEGEAN SEA

### What is heart failure with preserved ejection fraction?

Chairperson(s): R. De Boer (Groningen, NL); B. Pieske (Berlin, DE)

**Basic Science - Translational**

08:30	A disease of inflammatory co-morbidities! W. Paulus (Amsterdam, NL)	1315
08:52	A disease of the cardiomyocytes. W. Linke (Muenster, DE)	1316
09:15	The extracellular matrix does it all. A. Gonzalez Miquero (Pamplona, ES)	1317
09:37	Nitrosative stress drives HFpEF. J. Hill (Dallas, US)	1318

## Morning Sessions

08:30 - 10:00

SYMPOSIUM

AGORA 1

**The omega phase of the heart failure journey: palliative and end-life care**  
**Joint Session with the Association of Cardiovascular Nursing and Allied Professions (ACNAP)**



Chairperson(s): D. Fitzsimons (Belfast, GB); J. Celutkienė (Vilnius, LT)

08:30	The omega phase: dilemmas and devices. J.M. Beattie (London, GB)	1319
08:52	A multidisciplinary approach: combining medical and supporting care. L. Hill (Co.Antrim, GB)	1320
09:15	Improving a triangle of communication about palliative and end of life care. T. Jaarsma (Norrköping, SE)	1321
09:37	Patient preferences T. Hansen (Copenhagen, DK)	1322

10:00-11:00

CLINICAL CASE POSTERS

MODERATED POSTER AREA

**Clinical Case Corner 4 - Have you seen this before? Rare presentations**

Chairperson(s): D. Kotecha (Birmingham, GB)

10:00	Acute heart failure in pregnancy, do not forget zika and the pericardium. K. Gonzalez Carta, I. Morr, I.J. Mendoza Britto, Y. Meza, J.A. Marques, C. Terzic, F. Lopez-Jimenez, T. Allison, I.J. Mendoza Mujica (Rochester and Miami, US; Caracas, VE)	1323
10:06	Right heart failure related to diffuse large b cell lymphoma A.G. Florescu, A. Bouali, G. Salles, P.-Y. Courand (Lyon, FR)	1324
10:12	P-wave asystole in a 26-year-old male; a complex clinical course P.F. Brennan, O. King, J. Coburn, L.J. Dixon (Belfast, GB)	1325
10:18	Old therapies of new fashion: a better way to use diuretics and normal saline in acute decompensated heart failure M. Mapelli, N. Cosentino, A. Del Torto, C. Vignati, V. Mantegazza, A. Dalla Cia, F. De Martino, J. Campodonico, G. Marenzi, P.G. Agostoni (Milan, IT)	1326
10:24	A new mutation causing arrhythmogenic right ventricular cardiomyopathy with atypical presentation A. Aimo, A. Barison, G.D. Aquaro, U. Startari, G. Vergaro, C. Passino, M. Emdin (Pisa, IT)	1327
10:30	Clinical case of heart failure and atrial fibrillation due to long persistent migrated cava-filter in the right ventricle and tricuspid valve A. Yakushev, O. Paratsij, B. Kravchuk, V. Onishchenko, A. Rusnak, R. Maliarchuk (Kiev, UA)	1328
10:36	A defect never comes alone. How many anomalies discovered by chance can hide a single heart? R.-D. Adam, A. Nicula, S. Albu, C. Ginghina, B.A. Popescu, R. Jurcut (Bucharest, RO)	1329
10:42	Right heart failure in basedow-graves disease: a tricky diagnosis I. Casella, M. Buffa, F. Patti, E. Ubertaini, M. Gravellone, A. Giubertoni, C. Piccinino (Novara, IT)	1330
10:48	A sporadic or a familial case of left ventricular noncompaction? D. Bursacovschi, R. Negru-Cemortan (Chisinau, MD)	1331
10:54	Pulmonary thromboembolism in the patient with single ventricle id type and opening kava-caval collaterals E. Skorodumova, V.A. Kostenko, E.A. Skorodumova, A.V. Siverina, V.A. Ilina, I.V. Gayvoronskiy, A.V. Rysev, V.E. Savello, A.M. Antonova, A.S. Ragel, M.V. Soloviov, L.D. Egikian (Saint Petersburg, RU)	1332

## Morning Sessions

10:00 - 11:00

MODERATED POSTERS

MODERATED POSTER AREA

### Moderated Poster Session - Non pharmacological approach to heart failure world

Chairperson(s): M. Volterrani (Rome, IT); S. Xydonas (Chalandri, GR)

- |       |  |      |
|-------|--|------|
| 10:00 | <p><b>Palliative care on end-stage heart failure: EPICTER Study</b></p> <p>J. Fernandez-Martinez, M. Romero-Correa, P. Salamanca-Bautista, O. Aramburu-Bodas, F. Formiga, P. Vazquez-Rodriguez, A. Conde-Martel, J.A. Garcia-Garcia, I. Paez-Rubio, M.L. Lopez-Reboiro, C. Sanchez-Sanchez, P. Gil-Martinez, J.M. Cepeda-Rodrigo, J. Abellan-Martinez, J.L. Arias-Jimenez (Seville, Minas de Riotinto, A Coruña, Las Palmas De Gran Canaria, Huelva, Lugo, Avila, Madrid, Orihuela and Mostoles, ES)</p>   | 1333 |
| 10:06 | <p><b>Heart failure and palliative care: an integrated service for patients across hospital and community settings</b></p> <p>F. Hodson, M. Al Barjas, S. Karwowski, R. George, J. Ross (Kent, London and Farnborough, GB)</p>   | 1334 |
| 10:12 | <p><b>A constructivist approach to teaching patients with heart failure. Results from an intervention study</b></p> <p>E. Kroustalli, P.C. Papadopoulos Costas, V.I. Vasileiadis Ioannis, K.A. Kalokairinou Athena, K.S. Kiokas Sotirios, J.L. Karatzanos Eleftherios, N.S. Nanas Sefafeim (Athens, GR)</p>  | 1335 |
| 10:18 | <p><b>Quality of life measures in heart failure with reduced ejection fraction: sex differences and association with outcome</b></p> <p>A. Ravera, B.T. Santema, I.E. Sama, C.M. Lombardi, V. Carubelli, E. Sciatti, D. Savoldi, L. Rossi, S. Calza, V. Cappa, M. Metra, A.A. Voors (Brescia, IT; Groningen, NL)</p>   | 1336 |
| 10:24 | <p><b>Exercise capacity is negatively associated with cerebral white matter hyperintensity in elderly patients with heart failure</b></p> <p>A. Hirashiki, K. Kawashima, K. Nomoto, M. Kokubo, A. Shimizu, H. Arai (Obu, JP)</p>   | 1337 |
| 10:30 | <p><b>Variation of exercise oscillatory ventilation characteristics is related to the severity of chronic heart failure</b></p> <p>N. Panagopoulou, S. Dimopoulos, V. Zarvalias, P. Ferentinos, A. Ntalians, C. Kapelios, D. Delis, A. Sideris, S. Nanas, E. Karatzanos (Athens, GR)</p>   | 1338 |
| 10:36 | <p><b>Skeletal muscle dysfunction in patients with heart failure with preserved compared to reduced ejection fraction: association with an elevated level of pleiotropic cytokine (GDF-15)</b></p> <p>T. Bekfani, S. Derlien, A. Hamadanchi, J. Nisser, E. Froeb, M. Lichtenauer, B. Wernly, G. Dannberg, U.C. Smolenski, G. Lehmann, G. Wolf, S. Moebius-Winkler, P.C. Schulze (Jena, DE; Salzburg, AT)</p>   | 1339 |
| 10:42 | <p><b>New approaches for the respiratory muscle trainings based on morphological features of the diaphragm</b></p> <p>G.P. Arutyunov, E.A. Kolesnikova, K.V. Ilyina, A.K. Rylova, A.G. Arutyunov, N.V. Scherbakova (Moscow, RU)</p>  | 1340 |
| 10:48 | <p><b>The long term effect of exercise in the mobilization of endothelial progenitor cells in patients with chronic heart failure</b></p> <p>C. Kourek, G. Mitsiou, K. Psarra, V. Linardatou, M. Alshamari, N. Panagopoulou, C. Papadopoulos, T. Pittaras, S. Nanas, E. Karatzanos (Athens, GR)</p>  | 1341 |
| 10:54 | <p><b>The impact of patients adherence to the lifestyle advice on all-cause mortality in patients with heart failure: data from the Optimize Heart Failure Care Program</b></p> <p>Y. Lopatin, A. Grebennikova, H. Sisakian, H. Hayrapetyan, M. Glezer, A. Chesnikova, Z. Pagava, T. Abdullaev, A. Kurlianskaya, L. Voronkov, S. Berkinbayev, A. Rakisheva, E. Tarlovskaya, Z. Kipiani, G. Dadashova (Volgograd, Moscow, Rostov-on-Don and Nizhny Novgorod, RU; Yerevan, AM; Tbilisi, GE; Tashkent, UZ; Minsk, BY; Kiev, UA; Almaty, KZ; Baku, AZ)</p> | 1342 |

## Morning Sessions

10:00 - 11:00

HOW-TO SESSION

VIRTUAL CASE AREA

### Virtual case 4 - Young decompensated patient with congestive heart failure

Chairperson(s): M. Wallner (Graz, AT); K. Keramida (Athens, GR)

*A 43-year old man with recurrent heart failure hospitalisations was admitted to ICU due to decompensated heart failure. When standard pharmacological treatment was administered, the patient improved, but only temporarily*

10:10 - 10:50

SPECIAL EVENT

AEGEAN SEA

### HFA General Assembly

10:15 - 10:45

SATELLITE SYMPOSIUM - EXPERTS ON THE SPOT

AGORA 2

### New therapeutic options in the treatment of mitral regurgitation: practical considerations

**Organised by Charité Berlin, supported with an educational grant from Edwards**

Chairperson(s): S. Anker (Berlin, DE); P. Seferovic (Belgrade, RS)

*Understand practical considerations in the use of new therapeutic options for mitral regurgitation*

10:15 Welcome and introduction - New therapeutic options in the treatment of mitral regurgitation: practical considerations.

S. Anker (Berlin, DE)

10:18 New therapeutic options in the treatment of mitral regurgitation: practical considerations.

W. Abraham (Columbus, US)

10:35 Discussion - New therapeutic options in the treatment of mitral regurgitation: practical considerations.

S. Anker (Berlin, DE); W. Abraham (Columbus, US); P. Seferovic (Belgrade, RS)

10:15 - 10:45

SATELLITE SYMPOSIUM - EXPERTS ON THE SPOT

AGORA 1

### Screening, diagnosis and treatment of iron deficiency in chronic heart failure - Practical recommendations

**Organised by MedEd Global Solutions & Charité Universitätsmedizin Berlin, supported with an educational grant from Vifor Pharma**

Chairperson(s): J. Comin-Colet (Hospitalet De Llobregat, ES)

*Recognise the clinical impact of iron deficiency in patients with heart failure.*

*Evaluate the evidence base and implement best practice guidelines for the management of iron deficiency in chronic heart failure with reduced ejection fraction.*

10:15 Welcome and introduction - Screening, diagnosis and treatment of iron deficiency in chronic heart failure - Practical recommendations. 1343

J. Comin-Colet (Hospitalet De Llobregat, ES)

10:18 Screening, diagnosis and treatment of iron deficiency in chronic heart failure - Practical recommendations. 1344

T. McDonagh (London, GB)

10:38 Questions and answers - Screening, diagnosis and treatment of iron deficiency in chronic heart failure - Practical recommendations. 1345



## Morning Sessions

11:00 - 12:30

CLINICAL CASES

AGORA 2

### Clinical Case 2

Chairperson(s): S. Collins (Nashville, US); C. Kapelios (Athens, GR)

- |       |  |      |
|-------|--|------|
| 11:00 | Challenges in preventing sudden cardiac death. The importance of familial background, genetic profiling and follow-up in specialised units.<br>P. Jorda, A. Fernandez-Valledor, O. Campuzano, S. Prat, A. Garcia-Alvarez, L. Mont, M. Sitges, R. Brugada, J. Brugada, E. Arbelo (Barcelona and Girona, ES) | 1346 |
| 11:15 | Early detection of hTTR cardiac amyloidosis with bone DPD scintigraphy in a patient with a rare transthyretin mutation<br>M. Slama, E. Piekarski, C. Cauquil, V. Algalarrondo, L. Eliahou, C. Labeyrie, D. Adams, F. Rouzet (Paris, Le Kremlin-Bicetre and Clamart, FR)                                    | 1347 |
| 11:30 | Alcohol septal ablation in a patient with hypertrophic obstructive cardiomyopathy due to Anderson-Fabry disease<br>N. Verheyen, H. Seggewiss, K. Ablasser, E. Kolesnik, D. Zach, J. Binder, A. Zirlik, G.G. Toth (Graz, AT; Wuerzburg, DE)   | 1348 |
| 11:45 | Ventricular hypertrophy in a family with sarcomeric hypertrophic cardiomyopathy: always of genetic origin?<br>P. Jorda, A. Fernandez-Valledor, E. Torrecilla, E. Arbelo, O. Campuzano, F. Perez-Villa, L. Mont, J. Brugada, R. Brugada, M. Sitges, A. Garcia-Alvarez (Barcelona and Girona, ES)            | 1349 |
| 12:00 | Dilated cardiomyopathy malignant mutations a case to delve deeper<br>S. Das, S. Vashista, S. Seth (New Delhi, IN)  | 1350 |
| 12:15 | Restrictive cardiomyopathy and anomalous origin of the right coronary artery in a patient with desmin- and myotilin-gene variants: a deleterious combination.<br>P. Athanassopoulos, C. Da Silva, M. Manila, A. Manouras (Stockholm, SE)   | 1351 |

11:00 - 12:30

GUIDELINES IN DAILY PRACTICE

TRIANTI

### Guidelines in Daily Practice IV: patient with acute heart failure and pulmonary embolism.



MOBILE APP SESSION

Chairperson(s): C. Yancy (Chicago, US); C.E. Mueller (Basel, CH)

#### World Congress on Acute Heart Failure

- |       |  |      |
|-------|--|------|
| 11:00 | A patient with acute heart failure and pulmonary embolism.<br>J. Grapsa (London, GB) | 1352 |
| 11:25 | What do the guidelines say?<br>S.V. Konstantinides (Mainz, DE)                       | 1353 |
| 11:40 | How to implement the guidelines.<br>M. Lainscak (Murska Sobota, SI)                  | 1354 |
| 11:55 | Panel discussion.<br>A. Ristic (Belgrade, RS)  | 1355 |
| 12:15 | Conclusion and take home message.<br>C. Yancy (Chicago, US)                          | 1356 |

## Morning Sessions

11:00 - 12:30 SYMPOSIUM LAMBRAKIS

### Advanced heart failure: Update 2019

Chairperson(s): D. Milicic (Zagreb, HR); T. Ben Gal (Ramat Hasharon, IL)

11:00	Recent epidemiologic data: HFA advanced centers map. M.G. Crespo-Leiro (La Coruna, ES)	1357
11:22	Medical management: prospects and pitfalls. M. Metra (Brescia, IT)	1358
11:45	Long-term mechanical circulatory support: indications and follow-up. R. Starling (Cleveland, US)	1359
12:07	The hurdles and perspectives of heart transplantation. F. Maisano (Zurich, CH)	1360

11:00 - 12:30 SYMPOSIUM IONIAN SEA

### Special issues in cardio-oncology

Chairperson(s): Z. Iakobishvili (Holon, IL); I.A. Paraskevaidis (Athens, GR)

11:00	Immunotherapy associated cardiotoxicity: pathophysiology, detection and treatment strategies J. Moslehi (Nashville, US)	1361
11:18	Cardiotoxic drugs and heart failure. D.T. Farmakis (Athens, GR)	1362
11:36	Follow-up of cardio-oncological patients. T. Thum (Hannover, DE)	1363
11:54	Heart rate and arrhythmias in cancer patients. M. Anker (Berlin, DE)	1364
12:12	Therapeutic options. A. Cohen-Solal (Paris, FR)	1365

11:00 - 12:30 SYMPOSIUM MITROPOULOS

### Heart failure innovation - Drugs, devices, artificial intelligence Joint session with Heart failure Association of India



JOINT SESSION

Chairperson(s): V. Chopra (New Delhi, IN); S. Anker (Berlin, DE)

11:00	The role of statins in heart failure A. Roy (New Delhi, IN)	1366
11:22	To Be Announced.	1367
11:45	Application of artificial intelligence in heart failure V. Mahajan (New Delhi, IN)	1368
12:07	Innovative telemedicine - Using AI-analysed cardiac hemodynamic data H. Sievert (Frankfurt, DE)	1369

11:00 - 12:30 SYMPOSIUM SKALKOTAS

### Joint Session with Korean Society of Heart Failure



JOINT SESSION

## Morning Sessions

11:00 - 12:30

SYMPOSIUM

AEGEAN SEA

### Cardiac repair therapies

Chairperson(s): A. Climent (Tbc, ES); E. Iliodromitis (Agia Paraskevi Athens, GR)

**Basic Science - Translational**

11:00	Regeneration therapies for heart failure. Does it make sense? Almost ready. A. Terzic (Rochester, US)	1376
11:22	Cell-derived products for cardiac regeneration. The future. S. Sahoo (New York, US)	1377
11:45	Clinical application of regenerative therapies: lights and shadows. S. Janssens (Leuven, BE)	1378
12:07	Myocardial recovery: update 2019 S. Drakos (Salt Lake, US)	1379

11:00 - 12:30

SYMPOSIUM

AGORA 1

### Heart failure epidemiology and registries

Chairperson(s): E.A. Jankowska (Wroclaw, PL); V. Barberis (Nicosia, CY)

11:00	How to set up a high quality registry? O. Amir (Poria, IL)	1380
11:22	The ESC HF long-term EORP registry: impact on clinical practice. A.P. Maggioni (Milano, IT)	1381
11:45	HFA Atlas: a comprehensive insight into European heart failure epidemiology. I. Milinkovic (Belgrade, RS)	1382
12:07	From past to the future: Heart Failure Registry III. L. Lund (Stockholm, SE)	1383

## Lunchtime Sessions

12:45 - 14:00

SATELLITE SYMPOSIUM

TRIANTI

### Meet the experts on getting to grips with HFpEF

Organised by Medscape Education, supported with an educational grant from Novartis

Chairperson(s): C.S. Lam (Singapore, SG); J. McMurray (Glasgow, GB)

- Have increased knowledge regarding the utility of biomarkers and echocardiography in HFpEF (Heart Failure with preserved Ejection Fraction)

- Have greater competence related to the ability to recognize the emotional and clinical burden of a patient with HFpEF

- Have greater competence related to the diagnosis of HFpEF

12:45	Welcome and faculty introductions - Meet the experts on getting to grips with HFpEF. J. McMurray (Glasgow, GB)	1384
12:48	Asking the patient about HFpEF. C.S. Lam (Singapore, SG)	1385
12:58	Dispelling the myths around HFpEF. A. Voors (Groningen, NL)	1386
13:10	Panel discussion - Meet the experts on getting to grips with HFpEF. J. McMurray (Glasgow, GB)	1387
13:22	ABCs of diagnosis of HFpEF - What's new? B. Pieske (Berlin, DE)	1388
13:34	HFpEF past, present and future. L. Lund (Stockholm, SE)	1389
13:46	Panel discussion - Meet the experts on getting to grips with HFpEF. C.S. Lam (Singapore, SG)	1390
13:58	Conclusion and final comments - Meet the experts on getting to grips with HFpEF. C.S. Lam (Singapore, SG)	1391

12:45 - 14:00

SATELLITE SYMPOSIUM

LAMBRAKIS

### Cracking the code to a differential diagnosis of cardiac amyloidosis

Sponsored by Pfizer

Chairperson(s): C. Rapezzi (Bologna, IT); G. Filippatos (Athens, GR)

- To raise awareness of Transthyretin Amyloid Cardiomyopathy (ATTR-CM) and highlight the importance of differentiating it from other forms of cardiac amyloidosis

- To describe the utility of "red flag" signs and symptoms, biomarkers and scintigraphy to aid in a non-invasive diagnostic work-up of patients with ATTR-CM

- To discuss real-life clinical examples of ATTR-CM, covering key considerations and frequent pitfalls

12:45	Introduction: untangling cardiac amyloidosis. C. Rapezzi (Bologna, IT)	1392
12:50	Cracking the code: how to achieve a differential diagnosis. C. Rapezzi (Bologna, IT); P. Garcia-Pavia (Madrid, ES)	1393
13:10	Sharing real-world experience: ATTR-CM, the story of one family. P. Garcia-Pavia (Madrid, ES)	1394
13:25	Sharing real-world experience: breaking with tradition - Just old men? M. Fontana (London, GB)	1395
13:40	Sharing real-world experience: Monoclonal Gammopathy of Undetermined Significance (MGUS) - A common pitfall to establishing a definitive diagnosis. T. Damy (Creteil, FR)	1396
13:55	Summary and close: cracking the code to a differential diagnosis of cardiac amyloidosis. G. Filippatos (Athens, GR)	1397

## Lunchtime Sessions

12:45 - 13:45

SATELLITE SYMPOSIUM

IONIAN SEA

### Know it by heart - New opportunities for cardiologists in the Sodium-Glucose-Co-Transporter 2 (SGLT2) inhibitor era

Sponsored by Boehringer Ingelheim & Eli Lilly and Company Alliance

Chairperson(s): F. Ruschitzka (Zurich, CH); F. Zannad (Vandoeuvre Les Nancy, FR)

12:45	Welcome and introduction - Know it by heart - New opportunities for cardiologists in the SGLT2inhibitor era. F. Ruschitzka (Zurich, CH)	1398
12:55	SGLT2 inhibitors: what is the evidence so far? J. Butler (Atlanta, US)	1399
13:10	Advancing evidence-based care in patients with type 2 diabetes: new opportunities for cardiologists. R. Fontes Carvalho (Porto, PT)	1400
13:30	Ongoing studies with SGLT2 inhibitors: how may new and emerging evidence inform future clinical practice? F. Zannad (Vandoeuvre Les Nancy, FR)	1401
13:40	Summary and close - Know it by heart - New opportunities for cardiologists in the SGLT2 inhibitor era. F. Zannad (Vandoeuvre Les Nancy, FR); F. Ruschitzka (Zurich, CH)	

12:45 - 14:00

SATELLITE SYMPOSIUM

MITROPOULOS

### Innovative devices to better treat heart failure patients

Organised by Charité Berlin, supported with educational grants provided by Bioventrix, Cardiac Dimensions and Respicardia

Chairperson(s): S. Anker (Berlin, DE); A. Coats (Coventry, GB); H. Sievert (Frankfurt, DE)

- Examine recent results on the use of percutaneous mitral annuloplasty for the treatment of Functional Mitral Regurgitation (FMR)
- Understand how phrenic nerve stimulation can improve sleep apnea in Heart Failure (HF) patients
- Learn how reconstruction and volume reduction of the scarred left ventricle may be beneficial in ischemic heart failure patients

12:45	Reshaping the left ventricle using percutaneous mitral annuloplasty therapy - Results of the ReduceFMR phase II study. K. Witte (Leeds, GB)	1402
13:07	Sleep apnea therapy in heart failure in 2019 - Focus on phrenic nerve stimulation. P. Ponikowski (Wroclaw, PL)	1403
13:29	Less Invasive Ventricular Enhancement (LIVE) - A volume reduction and reshaping procedure for ischemic HF patients with Left Ventricular (LV) scar. M. Swaans (Hedel, NL)	1404
13:51	Panel discussion - Innovative devices to better treat heart failure patients. S. Anker (Berlin, DE); A. Coats (Coventry, GB); P. Ponikowski (Wroclaw, PL); H. Sievert (Frankfurt, DE); M. Swaans (Hedel, NL); K. Witte (Leeds, GB)	1405

## Lunchtime Sessions

12:45 - 14:00

SATELLITE SYMPOSIUM

SKALKOTAS

### Fighting advanced heart failure with innovative medical device technology Sponsored by Abbott

Chairperson(s): M.G. Crespo-Leiro (La Coruna, ES); P. Seferovic (Belgrade, RS)

*Attendees will learn about innovative approaches to better manage advanced heart failure with Left Ventricular Assist Device (LVAD) and what are the criteria for timely referral of patients to be considered for implantation. In addition exciting new long term clinical evidence with Left Ventricular Assist Device (LVAD) featuring full MagLev (Magnetic Levitation) flow will be discussed.*

12:50	The crisis of advanced heart failure: definitions and treatment options. M. Metra (Brescia, IT)	1406
13:06	Evolution of left ventricular assist device therapy: time for reappraisal? K. Damman (Groningen, NL)	1407
13:22	Referring the right patient at the right time for LVAD implantation: guidelines and patient criteria. F. Gustafsson (Copenhagen, DK)	1408
13:37	Do we have sufficient evidence to establish LVAD therapy as standard of care? H.S. Lim (Birmingham, GB)	1409

12:45 - 13:45

SATELLITE SYMPOSIUM

AEGEAN SEA

### Does multi-sensor prediction of heart failure facilitate CRT optimisation? Sponsored by Boston Scientific

Chairperson(s): Y. Al Hebaishi (Riyadh, SA); C. Linde (Stockholm, SE)

- Understand how to personalize Heart Failure (HF) management through the use of new diagnostic features on Cardiac Resynchronization Therapy (CRT) devices
- Get insight into first user experience of HeartLogic on CRT devices
- Assess the value of Atrial Fibrillation (AF) and HF diagnostics versus CRT optimization

12:45	CRT therapy - Mandatory requirements and "nice to have" features. C. Linde (Stockholm, SE)	1410
12:52	Managing heart failure patients using diagnostics -The playbook. L. Santini (Rome, IT)	1411
13:07	Pro - Heart failure and AF diagnostics are more important than CRT features! M. Cowie (London, GB)	1412
13:22	Con - Heart failure and AF diagnostics are more important than CRT features! A. Goette (Paderborn, DE)	1413
13:37	Take-home message - Does multi-sensor prediction of heart failure facilitate CRT optimisation? Y. Al Hebaishi (Riyadh, SA)	1414

### Rapid Fire 5 - Non-pharmacological treatments: beyond conventional

Chairperson(s): S. Price (London, GB); O. Manintveld (Berkel En Rodenrijs, NL)

- |       |   |      |
|-------|---|------|
| 14:15 | <b>Treatment of central sleep apnoea with phrenic nerve stimulation is associated with reduction in heart failure-related hospitalizations</b>  | 1417 |
|       | P. Ponikowski, O. Oldenburg, S. Javaheri, L. Goldberg, C. Stellbrink, A.C. Kao, R. Augostini, R.E.G. Germany, W.T. Abraham, M.R. Costanzo (Wroclaw, PL; Munster and Bielefeld, DE; Cincinnati, Philadelphia, Kansas City, Columbus, Oklahoma City and Naperville, US) |      |
| 14:21 | <b>Bacterial infections as a mediator of ventricular assist device-induced HLA allosensitization</b>  | 1418 |
|       | I. Armenis, A. Chaidaroglou, M.J. Bonios, N. Kogerakis, A. Gkouziouta, E. Leontiadis, S. Chatzianastasiou, D. Chlidou, D. Degiannis, S. Adamopoulos (Athens, GR)  |      |
| 14:27 | <b>Improvement of right ventricular function with intraaortic balloon pump counterpulsation</b>   | 1419 |
|       | M.J. Bonios, I. Armenis, N. Kogerakis, A. Gkouziouta, E. Leontiadis, P. Georgiadou, S. Fragkoulis, S. Dimopoulos, D. Tsiapras, P. Vlachos, S. Adamopoulos (Athens, GR)  |      |
| 14:33 | <b>Response to cardiac resynchronization therapy is present across all stages of chronic kidney disease</b>   | 1420 |
|       | J.M. Ter Maaten, P. Martens, A.H. Maass, K. Damman, M. Dupont, W. Mullens (Groningen, NL; Genk, BE)   |      |
| 14:39 | <b>Transcatheter Mitral-Valve Repair in patients with heart failure and severe dysfunction.</b>   | 1421 |
|       | P. Fluvia, X. Millan Alvarez, S. Mirabet Perez, D. Arzamendi Aizpurua, C.H. Li Li, J. Alvarez Garcia, L. Lopez Lopez, M. Rivas Lasarte, V. Brossa Loidi, A. Serra Penaranda, E. Roig Minguell (Girona and Barcelona, ES)  |      |
| 14:45 | <b>A novel rotary blood pump for HFpEF</b>  | 1422 |
|       | E. Gude, D.R. Fiare (Oslo, NO)  |      |
| 14:51 | <b>Temporal improvement in CRT response and survival: a review of multicenter trials</b>  | 1423 |
|       | C. Linde, S. Liu, D.H. Fagan, V. Laager, E. Chung (Stockholm, SE; Mounds View and Cincinnati, US)   |      |
| 14:57 | <b>Predictors of maximal exercise capacity in long-term mechanical circulatory support</b>  | 1424 |
|       | S.E.A. Felix, M.I.F. Oerlemans, L.W. Van Laake, J.H. Kirkels, F.W. Asselbergs, M.P. Buijsrogge, W.J.L. Suyker, N. De Jonge (Utrecht, NL)  |      |
| 15:03 | <b>Continuous-flow ventricular assist device to small left ventricle: Is it nightmare?</b>  | 1425 |
|       | M. Ono, K. Nawata, O. Kinoshita, S. Shimada, M. Ando, T. Inoue, E. Amiya, M. Hatano, I. Komuro (Tokyo, JP)  |      |
| 15:09 | <b>The detrimental effect of right atrial pacing on left atrial function and clinical outcome in cardiac resynchronization therapy.</b>   | 1426 |
|       | P. Martens, S. Deferm, M. Dupont, W. Mullens (Genk, BE)   |      |
| 15:21 | <b>Consequences of a revised heart allocation system on the cost effectiveness of cardiac transplantation in the united states: game theory based insights</b>  | 1428 |
|       | M. Saltzberg (Milwaukee, US)  |      |
| 15:27 | <b>Identifying urinary microRNAs for heart allograft rejection monitoring using small RNA sequencing - Pilot results</b>  | 1429 |
|       | J. Novak, T. Machackova, T. Novakova, J. Godava, P. Hude, V. Zampachova, J. Oppelt, P. Nemecek, H. Bedanova, O. Slaby, J. Bienertova-Vasku, J. Krejci, L. Spinarova (Brno, CZ)  |      |
| 15:33 | <b>Exercise oscillatory ventilation improves the performance of prognosis scores currently used for heart failure</b>   | 1430 |
|       | F. Gama, P. Freitas, C. Aguiar, A. Ferreira, A. Tralhao, C. Strong, A. Ventosa, J. Ferreira, M. Mendes (Lisbon, PT)   |      |
| 15:39 | <b>From transcatheter atrial septal defect closure to atrial left-to-right shunt as a novel application of heart failure with preserved ejection fraction (HFpEF)</b>   | 1431 |
|       | X. Jin, Y.M. Hummel, W.T. Tay, J.F. Nauta, N.S. Bamadhaj, C.S.P. Lam, A.A. Voors, E.S. Hoendermis (Singapore, SG; Groningen, NL)  |      |

## Afternoon Sessions

14:15 - 15:45 SYMPOSIUM TRIANTI

### Identifying and treating sleep apnea in heart failure

Chairperson(s): M. Volterrani (Rome, IT); S. Anker (Berlin, DE)

14:15	Prevalence, types and pathophysiology. A. Coats (Coventry, GB)	1432
14:37	Identifying patients: home testing vs. laboratory testing. C. Schoebel (Berlin, DE)	1433
15:00	Treatment of obstructive sleep apnea: from masks to neurostimulation. W. Abraham (Columbus, US)	1434
15:22	Treatment options for central sleep apnea. M. Cowie (London, GB)	1435

14:15 - 15:45 SPECIAL SESSION LAMBRAKIS

### HFA Championships



Chairperson(s): M. Lainscak (Murska Sobota, SI); S. Collins (Nashville, US);  
P. Seferovic (Belgrade, RS); I. Pina (Detroit, US)  
Judge(s): M. Jessup (Hingham, US); M. Metra (Brescia, IT); O. Chioncel (Bucuresti, RO);  
I. Ekman (Goteborg, SE)

14:15	Team Presentation. M. Lainscak (Murska Sobota, SI)	1436
14:37	French team. D. Bodez (Montreuil, FR); T. Damy (Creteil, FR); M. Frelat (Grisy-Suisnes, FR); A. Galat (Creteil, FR)	1437
15:00	Greek Team. J.T. Parisis (Athens, GR); V. Bistola (Athens, GR); M. Nikolaou (Athens, GR); A. Frogoudaki (Athens, GR)	1438
15:22	German Team.	1439

14:15 - 15:45 SYMPOSIUM IONIAN SEA

### Short term mechanical circulatory support

Chairperson(s): T. Ben Gal (Ramat Hasharon, IL) ; C. Schulze (Jena, DE)

14:15	Indications for implantation. D. Burkhoff (New York, US)	1440
14:37	Short term LV unloading. A. Ruhparwar (Heidelberg, DE)	1441
15:00	Short term RV unloading. F. Gustafsson (Copenhagen, DK)	1442
15:22	Novel devices: The road ahead. J. Lindenfeld (Nashville, US)	1443



## Afternoon Sessions

14:15 - 15:45

SYMPOSIUM

MITROPOULOS

### Practical use of biomarkers: tips and tricks

Chairperson(s): A. Mebazaa (Paris, FR); C.S. Lam (Singapore, SG)

14:15	Heart failure diagnosis: established and emerging biomakers. C.E. Mueller (Basel, CH)	1444
14:37	Biomarkers in risk-stratification and follow-up. S. Di Somma (Roma, IT)	1445
15:00	Phenotyping heart failure by biomarkers. A. Maisel (Solana Beach, US)	1446
15:22	Biomarker-guided treatment: myth or reality? G.M. Felker (Durham, US)	1447

14:15 - 15:45

SYMPOSIUM

SKALKOTAS

### Frailty and fatigue in heart failure: emerging problem in the heart failure clinic.

Chairperson(s): T. Jaarsma (Norrköping, SE); K. Dickstein (Stavanger, NO)

14:15	How to assess frailty and fatigue. I. Uchmanowicz (Wroclaw, PL)	1448
14:33	Use of anabolics and appetite stimulants. S. Von Haehling (Berlin, DE)	1449
14:51	Use of exercise and devices. I. Laoutaris (Athens, GR)	1450
15:09	Psychosocial and educational interventions to combat frailty. A. Stromberg (Linköping, SE)	1451
15:27	Taking care of stroke. A. Ahmed (Washington, US)	1452

14:15 - 15:45

SYMPOSIUM

AEGEAN SEA

### Cancer and heart failure: enemies in treatment?

Chairperson(s): J. Hulot (Paris, FR)

Basic Science - Translational

14:15	Heart failure promotes cancer or vice versa? R. De Boer (Groningen, NL)	1453
14:30	Common pathways in tumour growth and heart failure. D. Hilfiker-Kleiner (Hannover, DE)	1454
14:45	Cardiotoxic agents: from check point inhibitor to immunotherapy. C.G. Tocchetti (Napoli, IT)	1455
15:00	Molecular strategies to combat cardiotoxicity. C. Bar (Hannover, DE)	1456

## Afternoon Sessions

15:45 - 16:30

CLINICAL CASE POSTERS

MODERATED POSTER AREA

### Clinical Case Corner 5 - Cardio-oncology pearls

Chairperson(s): Z. Iakobishvili (Holon, IL); A.V. Nossikoff (Sofia, BG)

15:45	<b>Refractory Pericardial Effusion associated with Churg-Strauss Syndrome</b> S.K. Lee, M.S. Park, S.W. Choi, J.C. Youn, S.W. Han, K.H. Ryu, E.J. Kim (Dongtan and Seoul, KR)	1457
15:50	<b>A case of chemotherapy-induced heart failure</b> M. Hassan Abdelnabi, A. Almaghraby, Y. Saleh (Alexandria, EG)	1458
15:56	<b>The role of levosimendan and ivabradine in cardio-oncology: acute doxorubicin toxicity</b> G. El-Khoury, A. Bazarbachi, H. Skouri (Beirut, LB)	1459
16:01	<b>Behind the curtain - frequent is not always the answer</b> R. Carvalho, R. Carvalho, C. Ruivo, F. Montenegro Sa, L. Santos, S. Fernandes, M. Carvalho, J. Guardado, F. Soares, J. Morais (Leiria, PT)	1460
16:07	<b>Complete atrioventricular block revealing cardiac metastasis of pulmonary adenocarcinoma</b> S. Antit, F. Yangui, M. Ben Kilani, I. Boussabeh, M. Triki, L. Zakhama, S. Benyoussef (Marsa, TN)	1461
16:13	<b>Cardiogenic shock in a postoperative patient with neoplasia: what went wrong?</b> M.L. Barbu, C. Humulescu, A. Trandafir, D. Pasoiu, R. Ciomag, C. Homentcovschi, A. Gurghean, D. Spataru, R. Siliste (Bucharest, RO)	1462
16:18	<b>Early onset of coronary artery disease in young survivor after combined treatment of non-Hodgkin lymphoma</b> E.K. Shavarova, I.A. Chomova, V.V. Maiskov, Z.D. Kobalava (Moscow, RU)	1463
16:24	<b>AV Block with unconventional cause</b> A. Abdin, P. Baldia, M. Frick, N. Marx, K. Schuett (Aachen, DE)	1464

15:45 - 16:30

MODERATED POSTERS

MODERATED POSTER AREA

### Moderated Poster Session - Basic Science

15:45	<b>Serum uric acid levels and xanthine oxidase activity in chronic heart failure patients with chronic kidney disease</b> M. Kolomiets, A. Bilchenko (Kharkiv, UA)	1465
15:50	<b>Epigenetic changes in heart failure cohorts: novel insights into methylation changes of protein and RNA coding genes in human cardiac tissue</b> N. Glezeva, B. Moran, P. Collier, C. Moravec, D. Phelan, E. Donnellan, A. Russell-Hallinan, D.O.connor, W. Gallagher, J. Gallagher, K. Mcdonald, M. Ledwidge, J. Baugh, S. Das, C. Watson (Dublin, IE; Cleveland, US; Belfast, GB)	1466
15:56	<b>Sodium-glucose co-transporter 2 inhibition with empagliflozin improves cardiac function in non-diabetic rats with heart failure after myocardial infarction</b> S.R. Yurista, H.H.W. Sillje, S.U. Oberdorf-Maass, E.M. Schouten, M.G. Pavez-Giani, J.L. Hillebrands, H. Van Goor, D.J. Van Veldhuisen, R.A. De Boer, B.D. Westenbrink (Groningen, NL)	1467
16:01	<b>Rest myocardial perfusion defects are related to increased 99mTc-sestamibi washout and inflammation in CCC</b> L. Oliveira, J.T. Thackeray, M.L. Delarisse, D.M. Tanaka, C.G. Fabricio, A.C.L. Barros-Filho, D. Hilfiker-Kleiner, M. Ricke-Hoch, J. Mejia, B.G.A. Schirmer, C. Malamut, F.M. Bengel, M.V. Simoes (Ribeirao Preto, Sao Paulo and Belo Horizonte, BR; Hannover, DE)	1468
16:07	<b>Different pathophysiological pathways between ischaemic and non-ischaemic heart failure</b> R.J. Woolley, A.A. Voors, J. Tromp, J.F. Nauta, I.E. Sama (Groningen, NL)	1469
16:13	<b>Generation and phenotyping of a novel knock-in mouse model of arrhythmogenic cardiomyopathy</b> A. Di Bona, A. Scalco, N. Kuperwasser, P. David, R. Celegghin, K. Pilichou, M. Pende, C. Basso, M. Mongillo, T. Zaglia (Padua and Padova, IT; Paris, FR)	1470

## Afternoon Sessions

15:45 - 16:30

MODERATED POSTERS

MODERATED POSTER AREA

- 16:18 Inhibition of complement-coagulation system cross talk attenuates cardiac tissue injury in an ARVC animal model 1471  
 M. Mavroidis, K. Tsilafakis, A. Varela, F. Pantouli, C. Davos, I. Kostavasili (Athens, GR)
- 16:24 Pharmacological inhibition of GRK2 in experimental heart failure 1472  
 M. Ciccarelli, J. Gambardella, A. Fiordelisi, D. Sorriento, M. Sala, P. Campiglia, B. Trimarco, G. Iaccarino (Salerno and Naples, IT)

15:45 - 16:30

HOW-TO SESSION

VIRTUAL CASE AREA

### Virtual case 5 - Mysterious myocarditis in a young patient

Chairperson(s): H. Tolppanen (Helsinki, FI); E. Gara (Oxford, GB)

*A 39-year old woman with an episode of acute myocarditis a month earlier was admitted to hospital with symptoms of acute heart failure. Echocardiography demonstrated impaired left ventricular ejection fraction, heterogenous wall thickness and pericardial effusion.*

15:55 - 16:25

SATELLITE SYMPOSIUM - EXPERTS ON THE SPOT

AGORA 2

### The evolving role of cardiologists: can we help decrease the cardiovascular event burden in patients with type 2 diabetes?

**Sponsored by Boehringer Ingelheim & Eli Lilly and Company Alliance**

Chairperson(s): J. Butler (Atlanta, US)

- 15:55 Introduction and welcome - The evolving role of cardiologists: can we help decrease the cardiovascular event burden in patients with type 2 diabetes? 1415  
 J. Butler (Atlanta, US)
- 16:05 Open questions and answers - The evolving role of cardiologists: can we help decrease the cardiovascular event burden in patients with type 2 diabetes? 1416  
 J. Butler (Atlanta, US); R. Fontes Carvalho (Porto, PT)

15:55 - 16:25

SATELLITE SYMPOSIUM - EXPERTS ON THE SPOT

AGORA 1

### Challenges faced in diagnosing and managing HFpEF

**Organised by Medscape Education, supported with an educational grant from Novartis**

Chairperson(s): C.S. Lam (Singapore, SG)

- Have increased knowledge regarding the utility of biomarkers and echocardiography in HFpEF (Heart Failure with Preserved Ejection Fraction)
- Have greater competence related to the ability to recognize the emotional and clinical burden of a patient with HFpEF
- Have greater competence related to the diagnosis of HFpEF

- 15:55 Experts debate - Challenges faced in diagnosing and managing HFpEF. 1473  
 C.S. Lam (Singapore, SG); J. McMurray (Glasgow, GB); B. Pieske (Berlin, DE); L. Lund (Stockholm, SE); A. Voors (Groningen, NL)

## Afternoon Sessions

16:30 - 18:00

RAPID FIRE ABSTRACTS

AGORA 2

### Rapid Fire 6 - Risk stratification and prognosis

Chairperson(s): A. Cohen-Solal (Paris, FR); M. Volterrani (Rome, IT)

- |       |   |      |
|-------|---|------|
| 16:30 | <p><b>Machine learning based risk stratification of patients undergoing cardiac resynchronization therapy</b></p> <p>M. Tokodi, Z. Toser, A.M. Boros, W. Schwertner, A. Kovacs, P. Perge, G. Szeplaki, L. Geller, A. Kosztin, B. Merkely (Budapest, HU)</p>   | 1474 |
| 16:35 | <p><b>Prognostic impact of ICD interventions in a real-world primary and secondary prevention population</b></p> <p>E. Elia, L. Baldi Caproriti, G. Bertero, F. Chiarella, P. Ameri, C. Brunelli, P. Sartori, M. Canepa (Genoa, IT)</p>   | 1475 |
| 16:41 | <p><b>Predicting arrhythmic risk in dilated cardiomyopathy: a meta-analysis of clinical parameter</b></p> <p>A. Sammani, E. Kayvanpour, L.P. Bosman, F. Sedaghat-Hamedani, T. Proctor, K. Jensen, H.A. Katus, A.S.J.M. Te Riele, B. Meder, F.W. Asselbergs (Utrecht, NL; Heidelberg, DE)</p>  | 1476 |
| 16:46 | <p><b>Serial change of Layer-specific myocardial function by Chemotherapy in Breast cancer patients</b></p> <p>M.N. Kim, S.M. Park, H.D. Kim, D.H. Cho, S.P. Jung, K.H. Park, W.J. Shim (Seoul, KR)</p>   | 1477 |
| 16:52 | <p><b>Forecast of mOrtality Risk Early in the postCardiac Arrest Syndrome Therapy: pilot score for estimate early mortality in post cardiac arrest syndrome patient population</b></p> <p>E. Zima, B. Kiss, A. Parkanyi, E. Kovacs, P. Nyeki, Z.S. Jenei, A. Fekete-Gyor, L.A. Geller, B. Merkely (Budapest, HU)</p>  | 1478 |
| 16:58 | <p><b>Early heart remodeling in type 1 diabetes patients: possible phenotypes</b></p> <p>Y. Mahamat, A. Safarova, E. Kokhan, E. Khasanova, N. Safarova, V. Efimova, Z. Kobalava (Moscow, RU)</p>  | 1479 |
| 17:09 | <p><b>Specific pattern of cardiopulmonary exercise testing in patients with right heart failure</b></p> <p>I. Zlobina, A. Berezina, M. Simakova, O. Moiseeva (Saint Petersburg, RU)</p>   | 1480 |
| 17:15 | <p><b>Extent of late gadolinium enhancement was associated with re-worsening left ventricular ejection fraction in patients with non-ischemic dilated cardiomyopathy</b></p> <p>T. Nabeta, T. Naruke, Y. Ikeda, T. Ooki, K. Maemura, M. Yazaki, T. Fujita, S. Ishii, J. Ako (Sagamihara, JP)</p>  | 1481 |
| 17:20 | <p><b>Differences in circulating cardiac biomarkers between immunoglobulin light-chain and transthyretin cardiac amyloidosis</b></p> <p>V. Castiglione, A. Aimo, N. Ghionzoli, C. Prontera, S. Masotti, C. Grigoratos, D. Genovesi, A. Barison, G. Todiere, G.D. Aquaro, C. Passino, M. Emdin, G. Vergaro (Pisa, IT)</p>  | 1482 |
| 17:26 | <p><b>Early identification and prognosis of tachy-induced cardiomyopathy</b></p> <p>M. Merlo, C. Ruzzier, D. Zaffalon, E. Fabris, M. Gobbo, M. Bobbo, G. Barbat, E. Bianco, M. Zecchin, G. Sinagra (Trieste, IT)</p>  | 1483 |
| 17:31 | <p><b>Screening of LAMP2 expression in peripheral white blood cells by flow cytometry effectively identifies Danon disease among young females with advanced heart failure.</b></p> <p>M. Kubanek, J. Gurka, F. Majer, L. Piherova, A. Krebsova, A. Chaloupka, J. Krejci, T. Freiburger, D. Zakova, T. Kalina, J. Sikora, V. Melenovsky (Prague and Brno, CZ)</p> | 1484 |
| 17:37 | <p><b>Crude mortality risk in dilated cardiomyopathy. Comparison of the utility of general heart failure mortality scales derived from the Barcelona 2.0, MAGGIC and MUSIC studies in dilated cardiomyopathy.</b></p> <p>E.M. Dziewiecka, A. Karabinowska, M. Glimak, M. Winiarczyk, A. Karapetyan, S. Wisniewska-Smialek, P. Podolec, P. Rubis (Krakow, PL)</p>  | 1485 |
| 17:43 | <p><b>Differences in clinical features of hypertrophic cardiomyopathy with or without left ventricular enlargement: a single-center and retrospective study</b></p> <p>B. Ou (Changsha, CN)</p>   | 1486 |

## Afternoon Sessions

**16:30 - 18:00** **RAPID FIRE ABSTRACTS** **AGORA 2**

- |       |   |      |
|-------|---|------|
| 17:48 | Cardiovascular dysfunction associated with tyrosine kinase inhibitor use in patients with metastatic thyroid cancer<br>B.M. Dowsing, K. Bronis, V. Chambers, K. Newbold, S. Rosen, A. Lyon (London, GB)   | 1487 |
| 17:54 | Longitudinal Diastolic strain as predictor for systolic dysfunction among active breast cancer patients<br>L.M. Laufer-Perl, R. Rosen, L. Mor, M. Derakhshesh, N. Amrami, J. Sherez, G. Keren, Y. Arbel, Z. Rozenbaum, Y. Topilsky (Tel Aviv, IL) | 1488 |

**16:30 - 18:00** **SYMPOSIUM** **TRIANTI**

**Emerging therapies in heart failure**  
**Joint Session with the working group on pharmacotherapy of the ESC**



Chairperson(s): G. Filippatos (Athens, GR); C. Cecconi (Spilimbergo, IT)

- |       |   |      |
|-------|---|------|
| 16:30 | Drugs targeting cardiac metabolism.<br>G.M.C. Rosano (London, GB) | 1489 |
| 16:42 | Apelin pathway.<br>P. Ponikowski (Wroclaw, PL)                    | 1490 |
| 16:55 | Omecaptiv.<br>J. McMurray (Glasgow, GB)                           | 1491 |
| 17:08 | Vericiguat.<br>B. Pieske (Berlin, DE)                             | 1492 |
| 17:21 | Nitroxyl donors.<br>V. Mitrovic (Bad Nauheim, DE)                 | 1493 |
| 17:34 | B3 agonists.<br>J.L. Balligand (Brussels, BE)                     | 1494 |
| 17:47 | Potassium binders.<br>S. Anker (Berlin, DE)                       | 1495 |

**16:30 - 18:00** **GUIDELINES IN DAILY PRACTICE** **LAMBRAKIS**

**Guidelines in Daily Practice V: pregnancy and heart failure**



Chairperson(s): J. Bauersachs (Hannover, DE); Y. Lopatin (Volgograd, RU)

- |       |   |      |
|-------|---|------|
| 16:30 | A case of a pregnant woman with heart failure.<br>L. Gargani (Pisa, IT) | 1496 |
| 16:55 | What do the guidelines say?<br>V. Regitz-Zagrosek (Berlin, DE)          | 1497 |
| 17:10 | How to implement the guidelines.<br>B. Bozkurt (Houston, US)            | 1498 |
| 17:25 | Panel discussion.   | 1499 |
| 17:45 | Conclusion and take home message.<br>J. Bauersachs (Hannover, DE)       | 1500 |

**16:30 - 18:00** **SPECIAL SESSION** **IONIAN SEA**

**Late breaking trial IV - Registries**



Chairperson(s): L. Lund (Stockholm, SE); A. Mebazaa (Paris, FR)

## Afternoon Sessions

16:30 - 18:00

SYMPOSIUM

MITROPOULOS

### Female heart failure: what is different?

Chairperson(s): V. Bistola (Athens, GR); M. Jessup (Hingham, US)

- |       |  |      |
|-------|--|------|
| 16:30 | From atrial fibrillation to heart failure: does gender matter?<br>B. Casadei (Oxford, GB)  | 1507 |
| 16:52 | Anticoagulation: sex-related differences.<br>S.V. Konstantinides (Mainz, DE)               | 1508 |
| 17:15 | Women in heart failure clinical trials.<br>T. McDonagh (London, GB)                        | 1509 |
| 17:37 | Do we equally treat women and men with heart failure?<br>M.G. Crespo-Leiro (La Coruna, ES) | 1510 |

16:30 - 18:00

SYMPOSIUM

SKALKOTAS

### Takotsubo syndrome: from pathophysiology to the clinic

Chairperson(s): D. Brutsaert (Kontich, BE); H. Tsutsui (Fukuoka, JP)

**World Congress on Acute Heart Failure**

- |       |   |      |
|-------|---|------|
| 16:30 | Definition - risk assesment - outcomes.<br>E. Omerovic (Gothenburg, SE) | 1511 |
| 16:52 | Diagnostic work-up.<br>J.R. Ghadri (Zurich, CH)                         | 1512 |
| 17:15 | Role of arrhythmias.<br>Y. Akashi (Kawasaki, JP)                        | 1513 |
| 17:37 | Management.<br>A. Lyon (London, GB)                                     | 1514 |

16:30 - 18:00

SYMPOSIUM

AEGEAN SEA

### Upcoming and novel drugs in heart failure

Chairperson(s): S. Heymans (Maastricht, NL); B. Meder (Heidelberg, DE)

**Basic Science - Translational**

- |       |  |      |
|-------|--|------|
| 16:30 | Targeting cardiac amyloidosis.<br>C. Quarta (London, GB)                           | 1515 |
| 16:52 | Pirfenidone, a nice pirouette against fibrosis?<br>M. Ledwidge (Dun Laoghaire, IE) | 1516 |
| 17:15 | Elamipretide, to block mitochondrial dysfunction?<br>C. Maack (Wuerzburg, DE)      | 1517 |
| 17:37 | Gene therapy.<br>Y. Pinto (Amsterdam, NL)  | 1518 |

16:30 - 17:15

SPECIAL SESSION

AGORA 1

### Off the record session

More details on this special session available on the Mob App



# Heart Failure 2019

## Monday Posters



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## Posters Sessions

08:30 - 18:00

POSTER SESSION 3

POSTER AREA

### ATRIAL FIBRILLATION

- Worsening renal function in acute decompensated heart failure patients with atrial fibrillation** P1521  
I. Gorda, A. Bezrodnny (Kiev, UA)
- Short and long-term outcomes after radiofrequency catheter ablation of the his bundle: the experience of a tertiary center** P1522  
A. Manuel, J. Almeida, P. Fonseca, C. Guerreiro, J. Monteiro, F. Montenegro, J. Ribeiro, F. Rosas, E. Santos, J. Ribeiro, M. Oliveira, H. Goncalves, J. Primo, P. Braga (Porto, PT)
- Conflicts of interest among authors of the ESC guidelines for the management of atrial fibrillation** P1523  
B. Schneider, C. Stoellberger (Lübeck, DE; Vienna, AT)
- Right ventricular systolic pressure predicts the future development of atrial fibrillation in end-stage renal disease patients with enlarged left atrium** P1524  
H. Chung, J.M.L. Lee, J.S.W. Woo, J.B.K. Kim, S.J.K. Kim, Y.S.B. Byun, S.K.R. Ryu, W.K. Kim, W.S.K. Kim (Seoul, KR)
- Left atrial function and left atrial late gadolinium enhancement magnetic resonance in patients with atrial fibrillation.** P1525  
L.N. Agoston Vas Coldea, I. Muresan, B. Cojan-Minzat, T. Mocan (Cluj-Napoca, RO)
- Heart failure patients discharged with atrial fibrillation showed significantly higher readmission rate.** P1526  
K. Hirose, M.F. Fukunaga, S.I. Ito, M.Y. Yano, T.M. Morinaga, A.I. Isotani, M.H. Hyodo, S.S. Shirai, K.A. Ando (Fukuoka, JP)
- High prevalence of sleep apnea in patients with paroxysmal atrial fibrillation** P1527  
G.M. Traaen, B. Oeverland, L. Aakeroy, T. Hunt, C.H. Bendz, N. Bredesen, L.O.K. Sande, S. Aakhus, L. Hansen, K. Ausen, S. Steinshamm, O.G. Anfinsen, J.P. Loennechen, H. Akre, L. Gullestad (Oslo, Trondheim and Toensberg, NO)
- Assessment of diastolic function in patients with heart failure and atrial fibrillation** P1528  
R. Ventura Gomes, J. Pais, A. Pereira, D. Sebaiti, B. Rocha, G. Cunha, A. Marques, M. Quadrado, I. Cruz, A.R. Almeida, P. Fazendas, I. Joao, H. Pereira (Vila Franca de Xira, Evora, Almada and Lisbon, PT)
- Clinical use of a atrial fibrillation detection device for screening in highrisk patients** P1529  
J.M. Hartog, M.J.M. Hartog, L.M. Hartog (Utrecht and Leiden, NL; Leuven, BE)
- A meta-analysis of rhythm versus rate control for atrial fibrillation in chronic heart failure** P1530  
A.D. Copoeru, O. Cristea, V.H. Cristian, R.F. Pop (Cluj-Napoca, RO)

### DEVICE THERAPY

- Characteristics and predictors of super response to the Cardiac Resynchronisation Therapy(CRT). An Algerian single Center Experience.** P1531  
R. Benkouar, M.S. Ait Messaoudene, Y. Aoudia, A. Boudrifa, O. Kassoul, Y. Tir, K. Bouasria, N. Ali Tatar, M.T. Chentir, M.T. Chentir, Y. Bouhouita (Algiers, DZ)
- R wave sensed from the left ventricle as mortality predictor in patients with cardiac resynchronization therapy for primary prevention** P1532  
N.G. Uribe Heredia, R. Peinado Peinado, J.L. Balaguer Recena, L.G. Piccone Saponara, S. Moreno Reviriego, C. Solorzano Guillen, J.L. Peyrat Benitez, R. Arroyo Espliguero, M.E. Jimenez Martinez, C. Toran Martinez, A. Castillo Sandoval, J.L. Garcia Gonzalez, E. Novo Garcia, B. Garcia Magallon, M.E. Viana Llamas (Guadalajara, Madrid and Ciudad Real, ES)
- Comprehensive approach to the outpatient management of patients with prosthetic heart valves** P1533  
E. Gorbunova, N. Trishkina, V. Rozhnev, O. Barbarash (Kemerovo, RU)
- A decline in physical activity precedes sustained ventricular arrhythmias in women** P1534  
A.E. Burch, V. Kutiyfa, J.W. Erath, B. Assmus, D. Bondermann, A.M. Russo (Greenville, Rochester and Camden, US; Frankfurt am Main, DE; Vienna, AT)
- Progressive worsening in device-base failure sensors measurements are associated with sub-optimal BiV pacing percentages in CRT-D patients** P1535  
N. Varma, M. Cao, E.J. Schloss, R. Ahmed, C. Stolen, J.P. Boehmer (Cleveland, Rosemead, Cincinnati, St Paul and Hershey, US)



## Posters Sessions

- Preliminary experience of remote management of heart failure patients with a multisensor ICD alert.** P1536  
 E. De Ruvo, A. Capucci, F. Ammirati, D. Pecora, S. Favale, G. Molon, B. Petracchi, V. Bianchi, L. Cipolletta, L. Calo', V. Schirripa, C. La Greca, V.E. Santobuono, S. Valsecchi, A.D.onofrio (Rome, Ancona, OSTIA (ROME), Brescia, Bari, Negrar-Verona, Pavia, Naples and Milan, IT)
- ICD-measured heart sounds and their correlation with echocardiographic indexes of systolic and diastolic function** P1537  
 A. Capucci, L. Calo', L. Santini, D. Pecora, S. Favale, G. Molon, B. Petracchi, V. Bianchi, L. Cipolletta, E. De Ruvo, K. Mahfouz, C. La Greca, M. Campari, S. Valsecchi, A.D.onofrio (Ancona, Rome, Ostia (ROME), Brescia, Bari, Negrar-Verona, Pavia, Naples and Milan, IT)
- Risk of arrhythmias in relation to hypoxia in patients with heart failure and chronic obstructive pulmonary disease** P1538  
 L. Hernandez Urquieta, A. Orea Tejada, D. Gonzalez, A. Jimenez Valentin, A.J. Flores Vargas, A. Ibarra Fernandez, R. Davila Ramos, R. Hernandez Zenteno, R. Perez Padilla, R. Sanchez Santillan, K. Balderas Munoz, V. Pelaez Hernandez (Mexico city, MX)
- Efficacy of cardiac resynchronization therapy at severe chronic heart failure** P1539  
 B.A. Akhyt, R.R. Rekvava, K.M. Koshumbayeva, R.T. Kuanyszbekova (Almaty, KZ)
- Super responders to cardiac resynchronization therapy- A tertiary centre experience** P1540  
 A. Briosa, A. Marques, A.R. Pereira, S. Alegria, D. Sebaiti, A.C. Gomes, R. Miranda, S. Almeida, L. Brandao, H. Pereira (Lisbon, PT)
- Bachmanns bundle pacing combined with his bundle pacing a new approach to reverse cardiac remodeling** P1541  
 P. Wolff, P. Strozik, J.M. Zawadzki, A. Gajek, D. Zysko, A. Cieslieski, A. Slawuta, J. Gajek (Wroclaw and Klodzko, PL)
- Responders and non-responders after cardiac contractility modulation in patients with chronic heart failure and narrow QRS.** P1542  
 D. Losik, V. Shabanov, U. Verstuk, E. Fisher, I. Mikheenko, I. Peregudov, E. Morzhanaev, N. Elemesov, A. Filippenko, E. Pokushalov, A. Romanov (Novosibirsk, RU)
- Day-case implant of complex pacing devices is safe and preferred by patients; a 4 year experience.** P1543  
 R. Chattopadhyay, P.A. Chousou, R. Bellanti, A. Marinakis, J. Hayes, K. Sanders, V. Carpenter, H. Hewitt, A. Domingos, M. Virdee, P.J. Pugh (Cambridge, GB)
- PR interval prolongation, still a marker of worse outcome in patients treated cardiac resynchronization therapy patients** P1544  
 A.M.W. Van Stipdonk, M. Dural, F. Salden, I.A.H. Ter Horst, H.J.G.M. Crijns, F.W. Prinzen, M. Meine, A.H. Maass, K. Vernooy (Maastricht, Utrecht and Groningen, NL; Eskisehir, TR)
- LV only fusion pacing CRT without RV lead: clinical and echocardiographic characteristics of super-response** P1545  
 C. Vacarescu, L. Petrescu, C.T. Luca, C. Mornos, E.V. Goanta, S. Crisan, D. Cozma (Timisoara and Craiova, RO)
- Baseline characteristics determine long-term outcome to CRT, intermediate endpoints identify those at risk of adverse events.** P1546  
 A.M.W. Van Stipdonk, M. Ghossein, M. Kloosterman, I.A.H. Ter Horst, F.W. Prinzen, M. Meine, K. Vernooy, A.H. Maass (Maastricht, Groningen and Utrecht, NL)
- Prognostic significance of cardiac sympathetic activity and dyssynchrony in response to cardiac resynchronization therapy** P1547  
 K. Zavadovskiy, A. Mishkina, M. Gulya, V. Saushkin, D. Lebedev, Y.U. Lishmanov (Tomsk, RU)
- Connection of clinical indicators and various response to cardiac resynchronization therapy in patients with chronic heart failure and atrial fibrillation** P1548  
 T. Troyanova-Shchutskaya, A. Kurlianskaya, T. Denisevich, D. Goncharik, A. Chasnoyt, O. Shatova (Minsk, BY)
- Normal cardiac autonomic control in good CRT responders is not reliable predictor of future major ventricular arrhythmias in patients with severe heart failure.** P1549  
 E. Simeonidou, C. Pantisios, G. Giannakakis, J. Parisis, G. Filippatos, E. Iliodromitis (Athens, GR)

## Posters Sessions

### CHRONIC HEART FAILURE - PATHOPHYSIOLOGY AND MECHANISMS

- Endomyocardial injections of autologous mesenchymal stem cell for treatment the patients with non-ischemic cardiomyopathy** P1550  
 A. Kurlianskaya, O. Polonetsky, T. Denisevich, O. Shatova, T. Osmolovskaya, Y. Isaikina, D. Salauyou (Minsk, BY)
- Altered number of apoptotic-modified endothelial cells originated micro vesicles predict phenotypes of heart failure** P1551  
 A.E. Berezin, A.A. Kremzer, I. Mozos, A.A. Berezin, D. Petrovic (Zaporozhye, UA; Timisoara, RO; Ljubljana, SI)
- The plastics of atrioventricular valve in patients with chronic heart failure and severe left ventricular dysfunction** P1552  
 O. Shatova, N. Feaktsistava, A. Kurlianskaya, T. Denisevich, T. Troyanova-Shchutskaia, T. Dubovic (Minsk, BY)
- Population pharmacokinetics and pharmacodynamics of vericiguat in heart failure patients with reduced ejection fraction** P1553  
 M. Meyer, H. Ruehs, D. Klein, M. Frei, D. Garmann, J. Grevel, R. Austin, C. Becker, L. Roessig, B. Pieske (Wuppertal and Berlin, DE; Loughborough, GB)
- Slow and steady wins the race- the management of tachycardia induced cardiomyopathy** P1554  
 C. Farrell, K. Mcclynn, S. Quinn, A. Slevin, K. Ahmad, J. McLaughlin, L. Rahmani, B. Jasinski, S. David, G. Aleong (Letterkenny, IE)
- Higher levels of ferritin as a predictor of improvement of left ventricular ejection fraction in recent-onset idiopathic dilated cardiomyopathy** P1555  
 A. Giraldez Valpuesta, S. Gamaza Chulian, B. Serrano Munoz, F. Zafra Cobos, J. Oneto Otero (Cadiz and Jerez, ES)
- Importance of serum sodium in ischemic heart failure with systolic dysfunction** P1556  
 S. Bansal, M. Chaudhary (New Delhi, IN)
- Influence of decompensated heart failure on cardiac acoustic biomarkers: impact on early readmissions** P1557  
 J.W. Erath, P. Wanczura, J. Wranicz, A. Linke, A. Keller, U. Rohrer, D. Scherr (Frankfurt am Main and Dresden, DE; Rzeszow and Lodz, PL; Richmond, US; Graz, AT)
- Two-years effect of cardiac contractility modulation on reverse left ventricular remodeling in patients with heart failure and sinus rhythm** P1558  
 M.A. Trukshina, E.A. Lyasnikova, V.L. Galenko, M.Y. Sitnikova, T.A. Lelyavina, E.N. Mikhaylov, M.L. Abramov, M.A. Vander, K.V. Simonova, D.S. Lebedev, I.M. Kim, E.V. Shlyakhto (St.Petersburg, RU)
- Gut microbiome and heart failure with reduced ejection fraction in patients with coronary artery disease** P1559  
 E. Sawicka, M. Paniczko, M. Lapinska, M. Szpakowicz, Z. Stachurska, P. Lopienski, M. Puchalski, E. Tarasiuk, A. Szpakowicz, P. Sowa, M. Niemira, M. Kwasiewski, J. Bychowski, B. Sobkowicz, K.A. Kaminski (Bialystok, PL)
- Renal sympathetic denervation as a «mini-invasive bridge» to heart transplantation in patients with congestive heart failure and metabolic disorders** P1560  
 I. Hrabianiuk, A. Kurlianskaya, L. Rachok, O. Shatova, T. Denisevich, T. Dubovik (Minsk, BY)
- Characteristics of heart failure patients treated with sacubitril/valsartan in the province of Quebec, Canada** P1561  
 C. Royer, A. Daoust, J. Fortier, N. Bastien, C. Beauchemin, J. Lachaine (Montreal, CA)
- Latino american experience with Sacubitril/Valsartan in a heart failure unit : Real insight** P1562  
 A.L. Rodriguez Pulido, L.G. Gomez Escobar, M.P. Morales Parra, N. Quijano Martinez, A.F. Buitrago Sandoval, G. Gonzalez Robledo (Bogota, CO)
- High-risk percutaneous coronary intervention with mechanical support - Protected PCI. Initial experience** P1563  
 J. Belohlavek, T. Kovarnik, D. Zemanek, A. Kral, A. Linhart (Prague, CZ)
- Heart failure hospitalization in patients with reduced ejection fraction in a heart failure clinic** P1564  
 D. Seabra, I. Oliveira, A. Neto, A. Andrade, J. Azevedo, P. Pinto (Penafiel, PT)

## Posters Sessions

- Correlation of nutritional status with chosen biochemical parameters in patients hospitalized due to heart failure with reduced ejection fraction.** P1565  
H. Krysztofciak, J. Migaj, M. Dudek, E. Straburzynska-Migaj, M. Kaluzna-Oleksy (Poznan, PL)
- Insulin resistance as a predictor of mortality in patients with HFReF in relation on follow-up duration.** P1566  
N. Tkach, L. Voronkov, L. Voronkov (Kiev, UA)
- VO2 recovery delay is a useful predictor for impaired recovery of left ventricular function in heart failure with reduced ejection fraction** P1567  
K. Chun, B.J. Kim, J.W. Oh, S.M. Kang (Seoul and Busan, KR)
- Heart failure with mid-range ejection fraction: a distinct entity or rather a transitional phase?** P1568  
J. Stassen, J. Verwerf, R. Geukens, P. Dendale, M. Houbrechts, H. Goris, M. Scherrenberg, P.J.R. Timmermans (Hasselt, BE)
- Clinical and echocardiographic phenotypes of patients with postinfarction atherosclerosis: focus on patients with heart failure with mid-range ejection fraction.** P1569  
A. Kuular, A. Gamza, V. Tishkova, E. Lyasnikova, A. Vlasenko, A. Kozlenok, M. Sitnikova (Saint-Petersburg, RU)
- One year follow-up of clinical and mortality data of heart failure patients with mid-range ejection fraction** P1570  
M. Szabo, B. Muk, M. Dekany, D. Vagany, Z.S. Majoros, T. Borsanyi, K. Kosa, E. Szogi, R.G. Kiss, N. Nyolczas (Budapest, HU)
- Prognosis value of the mini nutritional assessment short form tool in outpatients with heart failure with mid-range ejection fraction** P1571  
E. Zamora, B. Gonzalez, V. Diaz, C. Rivas, P. Velayos, J. Lupon, M. De Antonio, M. Domingo, P. Moliner, E. Santiago-Vacas, E. Zamora, C. Joaquim, N. Alonso, M. Cachero, A. Bayes-Genis (Badalona, ES)
- Determination of optimal energy needs, protein, fats and carbons in patients with obesity and chronic heart failure with mid-range ejection fraction (HFmrEF)** P1572  
T. Zaletova, A.R. Bogdanov, S.A. Derbeneva, Y.G. Panova (Moscow, RU)
- Is the obesity paradox also present in heart failure with mid-range ejection fraction?** P1573  
E. Zamora, J. Lupon, M. De Antonio, M. Domingo, P. Moliner, E. Santiago-Vacas, J. Santesmases, M. Boldo, C. Diez-Quevedo, M.I. Troya, C. Rivas, B. Gonzalez, V. Diaz, P. Velayos, A. Bayes-Genis (Badalona, ES)
- Characteristics of LV left ventricular myocardium remodeling in patients with acute decompensated heart failure and intermediate LV left ventricular ejection fraction** P1574  
V.A. Kostenko, E.G. Skorodumova, E.A. Skorodumova, A.V. Siverina, V.A. Ilina (St. Petersburg, RU)
- Heart failure with mid-range ejection fraction in southern Brazil: an eight year follow up cohort** P1575  
L.C. Danzmann, L.C. Petersen, E. Bartholomay, E.H. Magedanz, B. Donay, C.P. Moreira, A.P. Tscheika, P.R. Caramori, L.C. Bodanese, M.H. Miglioranza (Porto Alegre, BR)
- Profile and differential management of patients with a mid-range ejection fraction compared to patients with depressed ejection fraction, long-term follow-up** P1576  
D. Enriquez Vazquez, C.N. Perez Garcia, M. Ferrandez Escarabajal, T.S. Luque Diaz, A. Travieso Gonzalez, M. Perez Serrano, C. Olmos Blanco, D. Vivas Balcones, E. Martinez Gomez, J. Higuera Nafria, R. Bover Freire, J. Goirigolzarri, I. Vilacosta, C. Macaya (Madrid, ES)
- On mid-term, had mid-range ejection fraction heart failure the same prognosis with reduced ejection fraction heart failure?** P1577  
C.M. Goidescu, L.A. Vida-Simiti, E. Muresan, I. Todor, D.L. Mocan-Hognogi, A.D. Farcas (Cluj Napoca, RO)
- Influence of left ventricular ejection fraction category in patients with stenosis aortic undergoing with transcatheter aortic valve replacement** P1578  
M. Munoz-Garcia, E. Munoz-Garcia, A.J. Munoz Garcia, A.J. Dominguez-Franco, J.M. Garcia-Pinilla, L. Morcillo-Hidalgo, J.H. Alonso-Briales, F. Carrasco-Chinchilla, J.M. Hernandez-Garcia, M.F. Jimenez-Navarro (Malaga, ES)
- Mid range ejection fraction: a continuum or a self clinical entity?** P1579  
C.L. Gonzalez, S. Mettini, N.C. Zareba, C.E. Sandoval, L. Secco, D.A. Fernandez, S. Garcia Zamora, J.J. Herrera Paz, S.M. Pereiro Gonzalez (Buenos Aires, AR)

## Posters Sessions

- Sexual differences in heart failure with mid-range ejection fraction patients** P1580  
J.C. Choe, J.H. Choi, J.Y. Shin, J. Ahn, J.S. Park, H.W. Lee, J.H. Oh, H.C. Lee, K.S. Cha, T.J. Hong (Pusan, KR)
- Comparative study of patients with heart failure with ejection fraction in the mid range and patients with preserved ejection fraction: management and prognosis** P1581  
D. Enriquez Vazquez, C.N. Perez Garcia, M. Ferrandez Escarabajal, A. Travieso Gonzalez, T.S. Luque Diaz, C. Olmos Blanco, D. Vivas Balcones, P. Mahia Casado, J. Higuera Nafria, J. Goirigolzarri, R. Bover Freire, I. Vilacostai, C. Macaya (Madrid, ES)
- The role of inflammation and fibrosis in the occurrence of atrial fibrillation in heart failure patients with mid-range ejection fraction** P1582  
S. Grigoryan, L.G. Hazarapetyan, K.G. Adamyany (Yerevan, AM)
- The significance of blood pressure control in heart failure with mid-range ejection fraction** P1583  
M. Marketou, S. Maragkoudakis, S. Maragkoudakis, A. Kostaki, A. Kostaki, K. Fragiadakis, K. Fragiadakis, A. Patrianakos, A. Patrianakos, S. Kassotakis, S. Kassotakis, A. Alevizaki, A. Alevizaki, O. Theodosaki, O. Theodosaki, P. Vardas, P. Vardas, F. Parthenakis, F. Parthenakis (Heraklion, GR)
- Adherence to therapy in patients with heart failure with mid-range ejection fraction: a problem to solve** P1584  
L. Popescu, H. Balan (Bucharest, RO)
- Left atrial remodeling in patients with mid-range ejection fraction heart failure with ischemic heart disease: the mirror image of systolic and diastolic dysfunction balance?** P1585  
A. Kuular, A. Gamza, A. Vlasenko, A. Kozlenok, E. Lyasnikova, M. Sitnikova (Saint-Petersburg, RU)
- Characteristic of sympathetic nerve activity in two subgroups of patients with heart failure (heart failure with reduced ejection fraction and mid-range ejection fraction)** P1586  
R. Urbancsek, I. Forgacs, J. Boczan, J. Barta, I. Edes, Z. Csanadi, L. Rudas (Debrecen and Szeged, HU)
- Haemodynamic differences in response to physiological and pharmacological stress in heart failure with preserved ejection fraction** P1587  
S. Sengupta, G.A. Macgowan, D.G. Jakovljevic (Nagpur, IN; Newcastle upon Tyne, GB)
- Hypovolemia and reduced hemoglobin mass in patients with heart failure and preserved ejection fraction** P1588  
T. Haider, D. Montero, J. Barthelmes, J.P. Goetze, S. Cantatore, I. Sudano, F. Ruschitzka, A.J. Flammer (Zurich, CH; Copenhagen, DK)
- Peak VO<sub>2</sub> as a main determinant of health related quality of life in symptomatic patients with heart failure with preserved ejection fraction** P1589  
A. Briatore, J.P. Tormo, B. Ventura, E. Dominguez, A. Bellver, F.J. Chorro, E. Santas, G. Minana, J.M. Ramon, J. Nunez, P. Palau Sampio (Castellón and Valencia, ES)
- Characteristics and outcomes of HFpEF with declining ejection fraction** P1590  
J.J. Park, C.S. Park, A. Mebazaa, J.H. Lee, D.J. Choi (Seongnam and Cheongju-Si, KR; Paris, FR)
- Incidence and probability of heart failure with preserved ejection fraction among high risk hypertensive patients.** P1591  
K. Gudieva, M. Islamova, A. Soloveva, R. Ammar, L. Babaeva, A. Safarova, Y. Karaulova, Z. Kobalava (Moscow, RU)
- The prevalence of diastolic heart failure among patients with hypertension, suffering from atrial fibrillation and role of hypertension in the remodeling of left atrium after pulmonary vein isolation** P1592  
A. Baymukanov, S. Sovetova, I. Khamnagadaev, S. Termosesov, I. Ilich, G. Gendlin, I. Nikitin (Moscow, RU)
- From recognition of a large unmet need to a first-in-human experience with a wireless left atrial pressure monitoring system for patients with heart failure** P1593  
W.T. Abraham, D. Erdheim (Columbus, US; Tel Aviv, IL)

### CHRONIC HEART FAILURE - EPIDEMIOLOGY, PROGNOSIS, OUTCOME

- High frequency of left ventricular recovery in a national cohort of patients with advanced heart failure** P1594  
W.H. Teh, M.C. Petrie, A.K. Barton, J. Dalzell, J. Simpson, R.S. Gardner, S.A.S. Beggs (Larbert and Glasgow, GB)

## Posters Sessions

- Significance of sST2 concentration last measurement in serialdetermination in patients risk stratification after acute heart failure decompensation** P1595  
V.N. Protasov, A.A. Skvortsov, O.Y. Narusov, M.D. Muksinova, D.E. Protasova, V.P. Masenko, S.N. Tereshchenko (Moscow, RU)
- Investigation on patient knowledge about heart failure in China** P1596  
R. Mo, L. Yu (Beijing, CN)
- Long-term prognosis of dilated cardiomyopathy in women** P1597  
A.C. Cannata, E. Fabris, M. Merlo, J. Artico, P. Gentile, C. Pio Loco, A. Ballaben, F. Ramani, G. Barbatì, G.F. Sinagra (Trieste, IT)
- Prevalence and long-term evolution of pulmonary hypertension and right ventricular dysfunction in heart failure outpatients** P1598  
E. Santiago-Vacas, J. Lupon, G. Gavidia-Bovadilla, M. De Antonio, P. Moliner, M. Domingo, E. Zamora, F. Gual-Capllonch, A. Teis, J. Santesmases, J. Nunez, S. Altimir, P. Martin, A. Ros, A. Bayes-Genis (Badalona, Barcelona and Valencia, ES)
- Heart Failure in Internal Medicine and Cardiology: same entity, different patterns.** P1599  
D.R. Perez Ramirez, M.F. Davila Ramos, D.R. Conde Martel, D.R. Garcia Quintana, D.R. Herrera Herrera, D.R. Monereo Munoz, D.R. Marfil Daza, D.R. Garcia Vallejo (Santa Cruz de Tenerife and Las Palmas de Gran Canaria, ES)
- Heart failure: the great unknown** P1600  
B. Moura, S. Goncalves, C. Fonseca, G. Proenca, C. Lourenco, S. Costa, A. Andrade, A. Sousa, C. Gavina, A. Tavares, J. Silva-Cardoso (Porto, Setubal, Lisbon, cascais, Coimbra, Penafiel, Barcelos, Matosinhos and Ponta Delgada, PT)
- Diabetes mellitus in acute heart Failure: dangerous friendships** P1601  
A. Garcia Quintana, M. Groba Marco, M. Davila, A. Conde Martel, C. Hernadez, A. Perez, A. Lara Padron, J.M. Medina Gil, M. Garcia Lopez, S. Tello Blasco, J.M. Garcia Vallejo, J.M. Orihuela Martin, F. Romero Santana, J.C. Perez Marin, V. Herrero Garcia (Las Palmas De Gran Canaria and Santa Cruz de Tenerife, ES)
- Predictors of mortality in patients with heart failure with mid-range ejection fraction (HFmrEF)** P1602  
D. Vagany, B. Muk, M. Szabo, K. Kosa, P. Bogyi, Z.S. Majoros, M. Dekany, T. Borsanyi, R.G. Kiss N. Nyolczas (Budapest, HU)
- Drug utilization patterns and its impact on health resource utilization and outcomes among patients with heart failure at a tertiary care hospital in southern india** P1603  
A. Singh, T. Devasia, Y. Rao, G. Paramasivam, H. Kareem, S. Chauhan, S. Rao, P.N. Shetty (Manipal and Trivandrum, IN; Anguilla, AI)
- HFpEF, HFmEFandHFrEF : clinical characteristicsand prognosis: a retrospective cohort (cross sectional) study in a population from Colombia** P1604  
C. Gallego, C.I. Saldarriaga, L.A. Fajardo, C. Lema, A. Agudelo (Medellin, CO)
- Long-term survival in contemporary patients with dilated cardiomyopathy** P1605  
K. Broch, A. Knutsen, E.C. Sekne, K. Murbraech, A.K. Andreassen, S. Aakhus, L. Gullestad (Oslo and Trondheim, NO)
- The association of serum HbA1c level with heart failure severity in systolic heart failure patients with diabetes mellitus** P1606  
M. Bijari, F. Vakilian, H. Naseri (Mashhad, IR)
- Sex differences in hospital referrals of patients with heart failure** P1607  
A.R. De Boer, A. Gohar, G.D. Valstar, M.J.M. Valk, J.J. Brugs, I. Vaartjes, A.W. Hoes, M.L. Bots, H.M. Den Ruijter, F.H. Rutten (Utrecht and Rotterdam, NL)
- Clinical characteristics of heart failure patients admitted to internal medicine vs. cardiology units: the VASCO study** P1608  
E. Ricciardi, G. La Malfa, E. Cenni, M. Micali, L. Manco, P. Lopena, M. Comina, G. Murialdo, P. Moscatelli, N. Musso, F. Puppo, F. Dallegri, C. Brunelli, A. Pende, M. Canepa (Genoa, IT)
- Prognosis and completion of the advance directive survey among patients with chronic heart failure** P1609  
M.S. Shin, J. Kim, S.Y. Suh, S. Heo (Incheon, KR; Little Rock, US)
- Pregnancy and subsequent pregnancy outcomes in peripartum cardiomyopathy** P1610  
D.-H. Bae, K.K. Hwang, M.-C. Cho, J.-H. Lee (Cheongju, KR)

## Posters Sessions

- The role of NT-proBNP, MPO, HS troponin, sST2 in predicting systolic heart failure** P1611  
L.V. Prokopova, M.Y.U. Sitnikova (Saint Petersburg, RU)
- Do women with heart failure get the best treatment possible?** P1612  
D. Kosuta, T. Furlan, K. Vrbinc Vrtek, B. Leskovar (Trbovlje, SI)
- HLM classification for prognostic stratification of patients with heart failure undergoing transcatheter valve intervention** P1613  
P. Severino, M. Pucci, R. Scarpato, M. Alfarano, A.D.amato, L. Netti, F. Infusino, S. Calcagno  
D. Alunni Fegatelli, A. Vestri, V. Maestrini, G. Sardella, M. Mancone, F. Fedele (Rome, IT)
- The prevalence of heart failure in Indonesia: based on published report of national health survey 2013 and 2018** P1614  
N.H. Karunawan, D.T.W. Nugroho (Mojokerto, ID)
- Profile of diabetic heart failure in a latin-american country. A national registry in Colombia** P1615  
L.E. Echeverria, C.I. Saldarriaga, J.E. Gomez (Floridablanca, medellin and Cali, CO)
- Left ventricular functional recovery and prognosis in chronic heart failure** P1616  
S. Tavares, A. Monteiro, J. Pereira, C. Gomes, I. Albuquerque, V. Guiomar, I. Ferreira, V. Chaves,  
P. Lourenco, P. Bettencourt (Porto, PT)
- Use of loop diuretics identifies patients with a poor prognosis regardless of a diagnostic label of heart failure** P1617  
J. Friday, R. Papworth, S. Kean, P. Pellicori, D. Mcallister, S. Barry, P. Jhund, C. Murphy, K. Hogg,  
M. Petrie, P. Forsyth, N. Lang, J.V. McMurray, M. Wolters, J.G.F. Cleland (Glasgow and Edinburgh, GB)
- Impact of geriatric nutritional risk index on mortality in patients with heart failure with preserved ejection fraction compared with HFmrEF and HFrEF** P1618  
S. Mori, T. Morinaga, S. Ito, M. Yano, A. Isotani, K. Ando (Kitakyushu, JP)
- Prognostic significance of left ventricular function alteration after acute myocardial infarction** P1619  
S.K. Lee, E.J. Kim, K.H. Ryu (Dongtan and Seoul, KR)
- Influence of gender on clinical results and predictor of long-term mortality after transcatheter aortic valve replacement** P1620  
E. Munoz-García, M. Munoz-García, A.J. Munoz Garcia, J.M. Garcia-Pinilla, L. Morcillo-Hidalgo,  
J.H. Alonso-Briales, A.J. Dominguez-Franco, J.M. Hernandez-García, M.F. Jimenez-Navarro,  
J.J. Gomez-Doblas (Malaga, ES)
- Stress-induced growing prevalence of secondary aldosteronism among patients with coronary artery disease and chronic heart failure** P1621  
V.V. Venzheha, P.O. Shevelok, A.N. Shevelok, N.T. Vatutin (Donetsk, UA)
- The utility of the MAGGIC heart failure risk score in predicting response to spironolactone: validation and results from the TOPCAT trial** P1622  
D. Silverman, A. Baldrige, S. Shah (Burlington and Chicago, US)
- heart failure awareness status of the general population in Korea: results from the KNOW-HF 2018 survey** P1623  
M.H. Jung, H.L. Kim, J.H. Choi, S. Lee, M.G. Kong, J.O. Na, Y.H. Cho, K.I. Cho, E.J. Kim (Chuncheon, Seoul, Dongtan, Bucheon and Busan, KR)

### CHRONIC HEART FAILURE - DIAGNOSTIC METHODS

- Myocardial fibrosis assessed with cardiac magnetic resonance imaging predicts mortality in heart failure with mid-range and preserved ejection fraction** P1624  
G. Van Woerden, B.D. Westenbrink, T.M. Gorter, T.P. Willems, M. Rienstra, D.J. Van Veldhuisen (Groningen, NL)
- Evaluation of the predictive capabilities of LV wall motion pattern and other strain characteristics in LV noncompaction patients' first degree relatives for early diagnosis of cardiomyopathy** P1625  
O. Akhan, E. Demir, F. Ozerkan Cakan, S. Nalbantgil (Izmir, TR)
- Relationship between congestion by ultrasound, body mass index and cardiac rhythm in ambulatory patients with heart failure** P1626  
P. Pellicori, J. Cuthbert, P. Shah, A. Urbinati, A. Kallvikbacka-Bennett, J.G.F. Cleland, A.L. Clark (Glasgow and Hull, GB)

## Posters Sessions

- Value of combined cardiopulmonary and echocardiography stress test to characterize the hemodynamic and metabolic responses of patients with heart failure and mid-range ejection fraction** P1627  
 N. Pugliese, I. Fabiani, R. Pedrinelli, A. Natali, F.L. Dini (Pisa, IT)
- Clinical and prognostic correlates of volume/time curvate cardiac magnetic resonance in patients with non-ischaeamic dilated cardiomyopathy and left bundle branch block** P1628  
 A. Aimo, G.D. Aquaro, A. Valleggi, A. Barison, S. Salerni, R. De Caterina, M. Emdin (Pisa and Chieti, IT)
- Myocardial strain assessed by feature tracking CMR in patients with heart failure, perimyocarditis, aortic valve stenosis and heart transplantation. A comparison with echocardiography** P1629  
 K. Pryds, A.H. Larsen, M.S. Hansen, A.Y.K. Grondal, R.S. Tougaard, N.H. Hansson, T.S. Clemmensen, B.B. Logstrup, H. Wiggers, W.Y. Kim, H.E. Botker, R.R. Nielsen (Aarhus and Aalborg, DK)
- Using cardiovascular magnetic resonance imaging to improve classification of ejection fraction** P1630  
 D. Bromage, M.F. Barakat, L. Pearce, P. Bhatti, R. Simpson, L. Dancy, A. Mcdiarmid, M. Monaghan, D. Okonko, T. Mcdonagh, D. Sado (London, GB)
- Choosing an effective methods for assessing the results of percutaneous coronary interventions in post-myocardial infarction patients** P1631  
 Y. Rustamova, V. Azizov, G. Imanov, D.A. Maximkin, A. Faibushevich (Baku, AZ; Moscow, RU)
- Variability in LVEF measured by echocardiography, gated SPECT and cardiac magnetic resonance: a real world analysis** P1632  
 C.M.F. Strong, A. Ferreira, B. Rocha, J. Abecasis, S. Guerreiro, P. Freitas, C. Saraiva, M.J. Andrade, R. Ribeiros, M. Canada, A. Ventosa, J. Calqueiro, M. Mendes (Lisbon, PT)
- Classifying heart failure patients based on objective Fast-SENC cardiac MRI measurements instead of subjective NYHA symptomatic criteria** P1633  
 H. Steen, M. Montenbruck, S. Kelle, S. Esch, B. Gersak, F. Andre, G. Korosoglou (Hamburg, Berlin, Heidelberg and Weinheim, DE; Ljubljana, SI)
- Limited diagnostic accuracy of the new ASE/EACVI algorithm for heart failure with preserved ejection fraction (VEEDia-study I)** P1634  
 A.A. Van De Bovenkamp, V. Enait, F.T.P. Oosterveer, A. Vonk Noordegraaf, A.C. Van Rossum, M.L. Handoko (Amsterdam, NL)
- Role of 123-Iodine metaiodobenzylguanidine imaging and cardiac MRI in ICD implantation decision making in heart failure patients** P1635  
 L.I. Birtolo, N.S. Nicolo Salvi, V.F. Viviana Frantellizzi, S.C. Sara Cimino, P.S. Paolo Severino, V.M. Viviana Maestrini, M.M. Massimo Mancone, G.D. Giuseppe De Vincentis, F.F. Francesco Fedele (Rome, IT)
- Assessment of predictive value of resting cardiac power output to left ventricular mass in patients with heart failure with reduced ejection fraction** P1636  
 J.T. Niedziela, A. Krajewski, L. Pyka, P. Rozentryt, M. Gasior (Katowice, PL)
- Impact of N-terminal pro-brain natriuretic peptide and 2D strain on development of cardiac events in patients with chronic kidney disease** P1637  
 S. Lee, J.Y. Lee, L.Y. Jung, Y.S. Kim, S.R. Lee, K.S. Rhee, J.K. Chae, W.H. Kim (Jeonju, KR)
- The prognostic value of stress gated blood pool SPECT in early postoperative period prognosis in patients with ischemic cardiomyopathy** P1638  
 V.V. Shipulin, K. Zavadovsky, S. Andreev, A. Pryakhin, V. Saushkin, V.M. Shipulin (Tomsk, RU)
- Electrocardiographic predictors of ventricular tachyarrhythmias in patients with ischemic vs non-ischemic heart failure** P1639  
 T. Vaikhanskaya, O.P. Melnikova, A.P. Vorobiev, A.V. Frolov (Minsk, BY)
- An analysis of right ventricular failure in isolated left ventricular noncompaction and idiopathic dilated cardiomyopathy** P1640  
 E.N. Libhaber, S. Nel, F. Peters (Johannesburg, ZA)
- Subclinical right ventricular dysfunction in gestational hypertension as compared to a normotensive pregnancy group** P1641  
 N. Patrascu, L.F. Trasca, M.S. Neagu, M. Cirstoiu, D. Vinereanu (Bucharest, RO)

## Posters Sessions

- Relation between left ventricular filling pressure and change of left ventricular wall intensity P1642  
M.S. Kim, J.W. Beom, J.H. Choi, S.Y. Kim, K.S. Kim, S.J. Joo, J.G. Lee (Jeju, KR)
- Electrocardiography and echocardiography dyssynchrony correlation with left ventricular function in long term permanent pacemaker implantation P1643  
M.-T. Chou, F.Y. Lin, C.Y. Chiang (Tainan, TW)
- Coronary venous anatomy in patients with heart failure P1644  
R. Mlynarski, A. Mlynarska, M. Sosnowski, K.S. Golba (Katowice, PL)
- Left ventricular ejection fraction remains the best echocardiographic predictor of long-term cardiovascular mortality in heart failure with reduced ejection fraction P1645  
E.E. Yakubovskaya, M.G. Poltavskaya, I.Y.U. Giverts, M.V. Serova, V.P. Sedov, M.D. Kuklina, A.L. Syrkin (Moscow, RU)
- Comparison of right ventricular free wall regional deformation in patients with pulmonary hypertension of different aetiologies P1646  
N. Ojrzynska, E. Kowalik, M. Kowalski, A. Klisiewicz, M. Demkow, A. Witkowski, J. Grzybowski (Warsaw, PL)
- Does metabolic syndrome influence right ventricular diastolic function in patients with preserved left ventricular systolic function? P1647  
E. Sedaia, V. Revenco, A. Moiseeva (Chisinau, MD)
- Risk prediction in patients with mild dilated cardiomyopathy by cardiovascular magnetic resonance: integrating assessment of myocardial mechanics with tissue characterisation P1648  
A.S. Lota, B.P. Halliday, S. Hatipoglu, R. Owen, U. Tayal, V. Vassiliou, D. Hammersley, R. Jones, S. Newsome, A. Gulati, J.S. Ware, S.A. Cook, J. Cleland, D.J. Pennell, S.K. Prasad (London and Glasgow, GB)

### CHRONIC HEART FAILURE - TREATMENT

- Effects of mineralocorticoid ceceptor antagonists (MRA) in heart failure patients after up to 12 months of follow-up. P1649  
L.L. Buttigieg, J. Delicata, A.M. Moore, R.G. Xuereb (Malta, MT)
- Sacubitril valsartan, a multicentric experience P1650  
F.J. Cortes, D.F. Arroyo Monino, M.I. Fernandez Valenzuela, M.I. Rivadeneira Ruiz, P. Ruiz Garcia, M. Chaparro Munoz, A.J. Castro Fernandez, A. Recio Mayoral (Seville, ES)
- Reduction of NT-proBNP in patients with type 2 diabetes mellitus and heart failure with preserved ejection fraction in short-term treatment with empagliflozin on top of existing therapy P1651  
B. Kanazirev, A. Dinkov, K. Hristozov, E. Marinova, V. Zlateva, M. Boyadjieva, Y. Bocheva (Varna, BG)
- Effects of sacubitril/valsartan on real-world patients with heart failure due to non-ischemic cardiomyopathy P1652  
C.-Y. Hsu, Y.-C. Lin, C.-Y. Huang (Taipei, TW)
- Effects of ivabradine on patients with depressed left ventricular ejection fraction after cardiac resynchronization therapy P1653  
H.-Y. Chang, C.-W. Hsieh, M.-C. Fong, A.-N. Feng, K.-C. Huang, W.-T. Lai, W.-H. Yin (Taipei, TW)
- Benefits of early administration of ivabradine in stabilized patients hospitalized due to worsening heart failure: insights from the Optimize Heart Failure Care Program P1654  
L.G. Mircheva, Y.T. Yotov (Varna, BG)
- Series of patients treated with sacubitril-valsartan in a cardiology day clinic: efficacy and safety after 6 months of follow-up P1655  
C. Beltran Herrera, V. Suberviola Sanchez-Caballero, S. Briongos, M. Sarrion, A. Sanchez, C. Cortina, A. Estevez, M.L. Giganto, I. Ponz, D. Vaqueriza, M. Dominguez, E. Gomez, S. Jimenez, L. Mora, R. Munoz (Madrid, ES)
- Effects of empagliflozin on exercise capacity and LV diastolic function in HFpEF and type-2 diabetes mellitus: rationale and design of prospective intervention study P1656  
A. Ovchinnikov, A. Borisov, C. Zherebchikova, O. Ryabtseva, O. Svirida, F. Ageev (Moscow, RU)
- Acute Effect of Sacubitril/Valsartan on Depression Score in patients with Acute Decompensated Heart Failure on the First Day of Therapy: A Prospective Analysis from Our Center Experiences P1657  
T. Kivrak, Y. Akin, O. Karaca, M. Yilmaz (Elazig and Sivas, TR)



Posters Sessions

- Titration process and predictors of achieving target dose of sacubitril/valsartan in patients with chronic heart failure and reduced ejection fraction attending to an outpatient heart failure clinic.** P1658  
 M. Rizzo, I. Colomer-Asenjo, S. Marin-Lopez, M. Sutil-Vega, F. Taibi-Hajjami, C. Roca-Guerrero, N. Mallofre-Vila, S. Galan-Fernandez, M. Lloreda-Surribas, D. Garcia-Vega, M. Bonastre-Thio, M. Panelo-Rubio, D. Valcarcel-Paz, J. Orus-Puigvert, A. Martinez-Rubio (Sabadell, ES)
- Nitrates in female patients with diabetes mellitus and without diabetes mellitus in reduced ejection fraction heart failure** P1659  
 G. Kozdag, D. Ural, K. Karauzum, I. Karauzum, J. Wiley, C. Sanina, C. Baydemir, T. Sahin, E. Ural, U. Bildirici, A. Agacdiken Agir (Kocaeli and Istanbul, TR; New York, US)
- Microcirculation changes in combination therapy in patients with heart failure with preserved ejection fraction.** P1660  
 Z.M. Akhilgova, M.V. Kurkina, Z.R. Dzhioeva, A.G. Avtandilov (Moscow, RU)
- Effects of perindopril on levels of endothelial dysfunction biomarkers in chronic heart failure patients with mid-range ejection fraction after 12-month therapy** P1661  
 I. Ilgisonis, Y.U. Danilogorskaya, E. Zheleznykh, Y.U. Belenkov, M. Kozhevnikona, G. Shakaryants, A. Shchendrigina, E. Privalova (Moscow, RU)
- Sacubitril/valsartan in chronic symptomatic heart failure: a real world experience of delivery and outcomes.** P1662  
 A. Kearney, L. Hill, J. Davidson, C. Mc Clure, L. Dixon (Belfast, GB)
- Outpatient inotrope administration in advanced heart failure patients: a single centre experience.** P1663  
 J. Curtain, E. Kavanagh, C. Howley, C. Tracey, C. Halley, J.O.neill, N.G. Mahon (Dublin, IE)
- Atrial fibrillation in Dutch chronic heart failure with reduced ejection fraction patients: the CHECK-HF registry** P1664  
 J.F. Veenis, H.P. Brunner-La Rocca, A.W. Hoes, G.C.M. Linssen, J.J. Brugts (Rotterdam, Maastricht, Utrecht and Twente, NL)
- Reduced diuretic requirements in HFReF patients taking Entresto (ARNI)** P1665  
 T. Mannion, L.O.connor, J. Kelly O'haire, G.O.gara, B. Mcadam (Dublin, IE)
- Sacubitril/Valsartan in real world heart failure practice in Asia** P1666  
 P.H. Chu, F.C. Hsia (Tao-Yuan, TW)
- Reduction of loop diuretic requirements in HFReF patients treated with Sacubitril/Valsartan** P1667  
 C. Goena, C. Gomez, R. Natividad, A. Lozano, V. Escolar, A. Laskibar, A. Romero, G. Zugazabeitia, I. Rodriguez, L. Quintas, P. Gil, I. Solla, I. Rilo, I. Urreta, M. Perez De Nanclares (Mendaro, Barakaldo, Bilbao, Galdakao, Vitoria and Donostia, ES)
- HRIDAY CARD- The Indian Heart Failure Passport** P1668  
 S. Vashista, S. Das, S. Seth (New Delhi, IN)
- Recovery of left ventricular dysfunction after Sacubitril/valsartan: predictors and managements** P1669  
 H.-Y. Chang, C.-W. Hsieh, M.-C. Fong, A.-N. Feng, K.-C. Huang, W.-T. Lai, W.-H. Yin (Taipei, TW)
- Safety, tolerability and discontinuation causes of sacubitril/valsartan treatment in patients with heart failure and reduced ejection fraction attending to an outpatient heart failure clinic.** P1671  
 M. Rizzo, I. Colomer-Asenjo, S. Marin-Lopez, M. Sutil-Vega, F. Taibi-Hajjami, C. Roca-Guerrero, N. Mallofre-Vila, S. Galan-Fernandez, M. Lloreda-Surribas, D. Garcia-Vega, M. Bonastre-Thio, M. Panelo-Rubio, D. Valcarcel-Paz, J. Orus-Puigvert, A. Martinez-Rubio (Sabadell, ES)
- Outcomes of adherence to guideline in heart failure management: the role of heart failure specialist** P1672  
 H. Skouri, M. Zahwe, H. Tamim, A. Al-Hajje, S. Rachidi, M. Khoury, H. Isma'eel (Beirut, LB)
- Valsartan improves ventriculo-vascular coupling index dose-dependently in heart failure with reduced left ventricular ejection fraction** P1673  
 W.-J. Chung, H. Choi, A.Y. Chang, M.S. Shin, K.Y. Park (Incheon, KR)
- Factors that influence Heart Failure treatment titration in a Heart Failure Unit** P1674  
 G.L. Alonso Salinas, E. Gonzalez Ferrer, S. Del Prado Diaz, M. Castillo Orive, S. Fernandez Santos, I. Rayo Llerena, M. Abellas Sequeiros, J.D. Sanchez Vega, J.M. Vieitez Florez, M. Pascual Izco, J.L. Zamorano (Madrid, ES)
- Effectiveness of early administration of tolvaptan after admission of heart failure for cardiac prognosis** P1675  
 T. Kaneda, M. Suzuki, K. Hara, M. Omori, Y. Taomoto, M. Iya, Y. Yamakami, H. Shimada, T. Manno, A. Isshiki, S. Kimura, M. Shimizu, H. Fujii (Yokohama, JP)

## Posters Sessions

- Potentially inappropriate medication use in elderly patients with heart failure: beers criteria-based review P1676  
 M. Zahwe, H. Skouri, A. Al-Hajje, H. Tamim, S. Rachidi, H. Isma'eel (Beirut, LB)
- Baseline characteristics, treatment dosage, and clinical outcomes of post-acute HFREF patients initiated with Sacubitril/Valsartan P1677  
 H. Liang (Kaohsiung, TW)
- Central sleep apnea in patients with chronic heart failure and its treatment with acetazolamide P1678  
 K. Sorokina, M. Poltavskaya, A. Palman, M. Kuklina, K. Kharkevich (Moscow, RU)
- The investigation of efficacy and safety about the clinical pathway for congestive heart failure specified immediate use of tolvaptan after admission in super-elderly patients. P1679  
 Y. Kato, A. Takaishi, T. Nakayama, K. Yasuhara, N. Matsuo, M. Tanimoto, K. Kagawa, Y. Nakano, N. Onishi, S. Hirohata, M. Ueeda (Kagawa and Okayama, JP)
- Sacubitril/valsartan in heart failure with reduced ejection fraction patients: real world experience on advanced chronic kidney disease, hypotension and dose titration P1680  
 H.-Y. Chang, C.-W. Hsieh, M.-C. Fong, A.-N. Feng, K.-C. Huang, W.-T. Lai, W.-H. Yin (Taipei, TW)
- Sacubitril-valsartan treatment furtherly improves response to intermittent parenteral levosimendan in ambulatory patients with advanced heart failure with reduced ejection fraction P1681  
 B. Munoz Calvo, C. Ganan-Gomez, A. Quiles-Recuenco, B. Calvo-Llorente, I. Mendo-Pedrajas, J. Navarro-Lopez, F. Roman-Garcia (Alcala de Henares, ES)
- Significant underutilization of angiotensin receptor neprilysin inhibitor (ARNI) and other evidence-based heart failure (HF) therapies in an outpatient clinic setting P1682  
 N. Singh, S. Premji, D. Ramakrishnan (Atlanta, US)
- Effectiveness of early administration of Tolvaptan for cardiac prognosis in acute decompensated heart failure P1683  
 T. Kaneda, M. Suzuki, K. Hara, M. Omori, Y. Taomoto, M. Iya, Y. Yamakami, H. Shimada, T. Manno, A. Isshiki, S. Kimura, M. Shimizu, H. Fujii (Yokohama, JP)
- Sacubitril/Valsartan: for all patients? P1684  
 B. Faria, F. Almeida, M. Oliveira, P. Hafe, G. Dias, F. Cardoso, S. Ribeiro, A. Lourenco (Guimaraes, PT)
- Effects of statins on major adverse cardiovascular events in patients with ischemic chronic heart failure with reduced ejection fraction and renal dysfunction P1685  
 D. Lashkul (Zaporizhzhya, UA)
- Statins improves functional capacity and restores LV diastolic reserve in patients with heart failure with preserved left ventricular ejection fraction P1686  
 A.G. Ovchinnikov, Z.V. Dreeva, A.V. Potekhina, T.I. Arefieva, V.P. Masenko, F.T. Ageev (Moscow, RU)
- An evaluation of consultant and registrar prescribing in the outpatient setting P1687  
 C.L. Thomson, G.L. Campbell, S. Rita (London, GB)
- Frailty quick test, effective for risk stratification of inadequate treatment of heart failure P1688  
 J.D. Sanchez Vega, G.L. Alonso Salinas, S. Del Prado Diaz, J.M. Vieitez Florez, E. Gonzalez Ferrer, J.L. Zamorano (Madrid, ES)
- Effect of sacubitril/valsartan in real-world patients in South London P1689  
 N. Holm, D. Bromage, J. Decourcey, T.A. McDonagh (Zurich, CH; London, GB)
- Prospective multi-center observational study showing a significant improvement of left ventricular function in ischemic and non-Ischemic cardiomyopathy using sacubitril/valsartan therapy. P1690  
 M.S.K. Alkasab, M.A.K. Mohammed Ahmed, A.S.M. Almgobel, O.F.E. Emadi, S.M.K. Alkasab (Riyadh, SA)
- Impact of beta blockers therapy on right ventricular function in heart failure patients with reduced ejection fraction a prospective evaluation P1691  
 R. Galves, R. Pierrard, K. Isaaz, A. Da Costa (Saint Etienne, FR)
- Clinical experience with ambulatory perfusion of levosimendan in an advanced heart failure unit P1692  
 J. Pamies-Besora, C. Moliner-Abos, P. Fluvia, M. Rivas-Lasarte, J. Alvarez-Garcia, S. Mirabet, L. Lopez, V. Brossa, E. Roig (Barcelona, ES)
- Treatment of patients with chronic heart failure: does management in heart failure clinic improve adherence to guidelines for the treatment of heart failure? P1693  
 T. Furlan, D. Kosuta, V. Griij, S. Poznic, B. Leskovar (Trbovlje, SI)

## Posters Sessions

- Intermittent infusions of levosimendan in advanced heart failure: last but not least; a single-centre clinical experience on the efficacy of repeated levosimendan infusions.** P1694  
P. Romano, F. Cannata, C. Panico, A. Cappelleri, M. Pellegrino, B. Pagliaro, L. Ardino, G. Condorelli, D. Pini (Rozzano, IT)
- Study of effect of therapy of chronic obstructive pulmonary disease on coexistent chronic heart failure** P1695  
S. Rafla, A. Aboelhoda, A. Khamis, R. Swied (Alexandria, EG)
- Polypharmacy in patients with chronic heart failure** P1696  
M.A. Gaman, E.C. Dobrica, M.A. Cozma, A.M. Gaman, C.C. Diaconu (Bucharest and Craiova, RO)
- Changes in hemodynamic profile in patients with severe systolic dysfunction treated with sacubitril-valsartan** P1697  
F. Corazza, A. Ceccarelli, G. Vitale, S. Boschi, L. Giovannini, M. Masetti, A. Russo, L. Potena (Bologna, IT)
- Sacubitril/valsartan inverse remodeling - a prospective echocardiographic study** P1698  
G. Bayard, R. Pierrard, K. Isaaz, A. Da Costa (Saint Etienne, FR)
- Initial clinical experience with the first drug (sacubitril/valsartan) in a new class -arni- in afro-caribbean patients with heart failure and reduced ejection fraction** P1699  
F. Nunura, E.T.R. Tulloch-Reid, D.N. Nepaul, E.M. Madu (Kingston, JM)
- Empagliflozin in heart failure: beyond clinical endpoints** P1700  
M. Abellas Sequeiros, S. Del Prado, G. Alonso Salinas, J.M. Vieitez Florez, A. Lorente Ros, J.L. Moya Mur, A. Garcia Martin, J.J. Jimenez Nacher, C. Fernandez-Golfín, J.L. Zamorano Gomez (Madrid, ES)
- ARNI use in clinical practice: PARADIGM-HF trial results applied to the real world** P1701  
T.E. Graca Rodrigues, J.R. Agostinho, J. Rigueira, I. Aguiar-Ricardo, A. Nunes-Ferreira, R. Santos, N. Cunha, T. Guimaraes, M. Almeida Ribeiro, S. Longo, N. Lousada, F. Veiga, M. Mendes Pedro, F.J. Pinto, D. Brito (Lisbon, PT)
- MYK-491, a novel cardiac myosin activator, increases cardiac contractility in healthy volunteers** P1702  
J.-F. Tamby, L. Fang, J. Lickliter, S. Hegde, H. Surks, S. Reece, S. Teichman, C. Yang, S. Fernandes, J. Lambing, M. Semigran, J. Lee, S. Solomon (South San Francisco, Boston and Bridgewater, US; Melbourne, AU)
- Comparative effectiveness of loop diuretics on mortality in the treatment of patients with chronic heart failure - A multicenter propensity score matched analysis** P1703  
L. Frankenstein, H. Froehlich, M. Grundtvig, M. Seiz, D. Schellberg, K. Goode, S. Kazmi, T. Hole, H.A. Katus, D. Atar, J.G.F. Cleland, S. Agewall, A.L. Clark, L. Frankenstein (Heidelberg, DE; Lillehammer, Trondheim and Oslo, NO; Hull and London, GB)
- A low dose Pimobendan was observed to prolong the period until re-hospitalization for Japanese patients with advanced heart failure, especially in the vulnerable post-discharge period.** P1704  
K. Kodama, N. Dohi, T. Murata, Y. Sano, T. Yokoi, M. Nakano, T. Sakamoto, K. Nakao (Kumamoto and Tokyo, JP)
- microRNA-21 as a prognostic biomarker of sacubitril/valsartan treatment response in heart failure with reduced ejection fraction** P1705  
M. Marketou, H. Nakou, J. Kontarakis, S. Maragkoudakis, J. Konstantinou, A. Kostaki, D. Papadopoulos, S. Kassotakis, A. Patrianakos, K. Fragiadakis, M. Platakis, O. Theodosaki, A. Alevizaki, P. Vardas, F. Parthenakis (Heraklion, GR; London, GB)
- Metabolism and pharmacokinetic drug interaction profile of vericiguat, a soluble guanylate cyclase stimulator** P1706  
M. Lobmeyer, M. Gerisch, M.-F. Boettcher, D. Thomas, M. Gerrits, W. Mueck, N. Besche, C. Becker (Wuppertal and Essen, DE; New Jersey, US)
- Are we optimizing medical therapy during a heart failure hospitalisation?** P1707  
K. Girard, H. Provencher Couture, F. Dupont, N. Desgagnes, S.L. Lepage (Sherbrooke, CA)
- Sacubitril/Valsartan in clinical practice, how does it work?** P1708  
C. Nordberg Backelin, A. Pivodic, M. Fu, C. Ljungman (Gothenburg, SE)

## Posters Sessions

### CHRONIC HEART FAILURE - CLINICAL

- Evaluation of the effectiveness of lisinacore and losartan in patients with chronic heart failure** P1710  
U. Kamilova, Z. Rasulova, D. Masharipova, G. Zakirova (Tashkent, UZ)
- Profile and follow up of the elderly patient with heart failure** P1711  
D. Enriquez Vazquez, C.N. Perez Garcia, M. Ferrandez Escarabajal, T.S. Luque Diaz, A. Travieso Gonzalez, M. Perez Serrano, E. Martinez Gomez, N. Ramos Lopez, A. Jeronimo Baza, C. Olmos Blanco, D. Vivas Balcones, J. Goirgolzarri, R. Bover Freire, I. Vilacosta, C. Macaya (Madrid, ES)
- Impaired filtration and tubular kidney functions in patients with chronic heart failure with a moderately reduced left ventricular ejection fraction and persistent atrial fibrillation** P1712  
N. Koziolova, S. Mironova, E. Polyanskaya (Perm, RU)
- The impact of diabetes mellitus and microvascular complications on heart failure biomarkers** P1713  
F. Fringu, D. Zdrenghea, G. Gusetu, B. Caloian, H. Comsa, A. Bian, D. Gurzau, R. Tomoia, C. Florea, F. Morar, D. Pop (Cluj Napoca, RO)
- What is the difference in clinical, instrumental characteristics and prognosis in patients with CHF and rLVEF in regard to the presence and nature of the iron deficiency state?** P1714  
V.G. Gorbachova, A.V. Lyasheko, T.I. Gavrilenko, L.S. Mhityaryan, L.G. Voronkov (Kiev, UA)
- Left ventricular systolic dysfunction in asymptomatic patients with diabetes mellitus type 1 is associated with duration of disease, obesity and poor glycemic control** P1715  
C. Kapelios, S. Liatis, M. Bonou, A. Tentolouris, A. Barmpagianni, M. Driva, I. Eleftheriadou, E. Papachristoforou, E. Athanasiadi, D. Tsilingiris, V. Lambadiari, J. Barbetseas (Athens, GR)
- Association analysis of N-terminal prohormone of B-type natriuretic peptide (NT-proBNP) and growth differentiation factor 15 (GDF-15) in cardiac and non-cardiac frailty** P1716  
Q. Li, L.T. Lui, X. Yang, S. Liu, K.F. Cheng, J. Lupon, A. Bayes-Genis, D. Sahota, J. Woo, E. Fung Hong Kong, HK; Barcelona, ES)
- The short term effect of parenteral iron supplementation on oxidative status in patients with chronic heart failure and iron deficiency** P1717  
C.N. Nganou Gnjindjo, D.L. Wouna Angong, A.C. Pieme, N. Ateba, A.M. Jingi, A. Tankeu T.F.T. Endomba Angong, C. Dongmo Nanfack, D.B. Tcheutchoua Nzokou, J.J. Yomkil Baye, P.Y. Tchebegna, J.F. Tsasse, S.L. Amougou Ndongo, B. Hamadou, A.P. Menanga (Yaounde and Douala, CM; Lausanne, CH)
- Cardiopulmonary exercise testing for assessing frailty status in stable elderly patients with heart failure** P1718  
A. Hirashiki, K. Kawashima, K. Nomoto, M. Kokubo, A. Shimizu, H. Arai (Obu, JP)
- Segmental water distribution in hospitalized patients with Chronic Obstructive Pulmonary Disease and Right Heart Failure.** P1719  
A.A. Ibarra-Fernandez, D. Gonzalez-Islas, A. Orea Tejada, A. Jimenez-Valentin, F. Salgado-Fernandez, A.J. Flores-Vargas, L. Hernandez-Urquieta, R. Hernandez-Zenteno, R. Sanchez-Santillan, K. Balderas-Munoz, V. Pelaez-Hernandez, F. Flores-Trujillo, N. Garcia-Galvez, V. Fernandez-Badillo (Mexico city, MX)
- Effects of phrenic nerve stimulation in subjects with central sleep apnoea and heart failure with reduced, mid-range, and preserved ejection fraction: findings from the remede system pivotal trial** P1720  
M.R. Costanzo, L. Goldberg, S. Mckane, O. Oldenburg, A. Kao, R. Kawash, R.E.G. Germany, P. Ponikowski, C. Stellbrink, W.T. Abraham (Naperville, Philadelphia, Minnetonka, Kansas City, Columbus and Oklahoma City, US; Munster and Bielefeld, DE; Wroclaw, PL)
- Sleep disordered breathing in patients with heart failure: association with biomarkers and clinical parameters** P1721  
E.A. Medvedeva, L.S. Korostovtseva, M.A. Simonenko, Y.V. Sviryaev (Saint-Petersburg, RU)
- Evolution of death due to cancer in heart failure ambulatory patients during 17 years follow-up** P1722  
P. Moliner, J. Lupon, M. De Antonio, M. Domingo, E. Santiago-Vacas, E. Zamora, B. Gonzalez, C. Rivas, V. Diaz, P. Velayos, J. Santesmases, C. Diez-Quevedo, M. Boldo, J. Nunez, A. Bayes-Genis (Badalona and Valencia, ES)
- Sleep apnea screening in heart failure: an exploratory analysis** P1723  
R. Ventura Gomes, B. Rocha, G. Cunha, R. Morais, L. Fernandes, L. Campos, I. Araujo, C. Fonseca (Vila Franca de Xira and Lisbon, PT)

## Posters Sessions

- Diabetes is the strongest predictor of limited exercise capacity in patients with chronic heart failure** P1724  
G. Bajraktari, V. Berisha-Muharremi, E. Haliti, I. Bytyci, A. Poniku, A. Ahmeti, A. Batalli, P. Ibrahim, R. Tafarshiku, Z. Rexhaj, S. Elezi (Pristina, XK)
- Prognostic value of cognitive tests in chronic heart failure with reduced left ventricular ejection fraction** P1725  
A. Solonovych, A.V. Liashenko, I.L. Revenko, L.G. Voronkov (Kiev, UA)
- Diabetes is associated with unique pathological mechanisms in heart failure.** P1726  
J. Tromp, A.A. Voors, A. Sharma, J.P. Ferreira, W. Ouwerkerk, H.L. Hillege, P. Van Der Harst, D.J. Van Veldhuisen, P. Van Der Meer, I. Sama (Singapore, SG; Groningen and Amsterdam, NL; Montreal, CA; Nancy, FR)
- Safety and effectiveness of phrenic nerve stimulation in male and female patients with central sleep apnoea** P1727  
M.R. Costanzo, S. Mckane, A. Hasan, A. Kao, H. Fox, R.E.G. Germany, C. Stellbrink, S. Joseph (Naperville, Minnetonka, Columbus, Kansas City, Oklahoma City and Dallas, US; Bad Oeynhausen and Bielefeld, DE)
- Understanding the contemporary use of thiazolidinediones. An analysis of the Diabetes Collaborative Registry** P1728  
S. Arnold, S. Inzucchi, J. Echouffo-Tcheugui, F. Tang, C. Lam, L. Sperling, M. Kosiborod (Kansas City, New Haven, Baltimore and Atlanta, US; Singapore, SG)
- Left ventricular dysfunction in HIV infected anti-retroviral therapy naive patients** P1729  
C. Mystakelis, A. Lisco, M. Manion, A. Rupert, G. Roby, V. Sheikh, I. Sereti (Bethesda and Frederick, MD, US)
- CMR in the evaluation of the results of percutaneous coronary interventions in patients with diabetes mellitus type 2 and chronic heart failure** P1730  
Y. Rustamova, V. Azizov, G. Imanov, D.A. Maximkin, A. Faibushevich (Baku, AZ; Moscow, RU)
- Evaluation of lung ultrasound for differential diagnosis of pneumonia and heart failure decompensation** P1731  
O. Zorya, S. Omar, M. Bayarsaikhan, S.A. Rachina, Z.D. Kobalava (Moscow, RU)
- Detection of the changes in cardiac function and sleep disordered breathing can be simultaneously and automatically performed by a nocturnal polygraphy with novel algorithm.** P1732  
T. Tobushi, T. Kadokami, K. Abe, R. Nakamura, S. Ando (Chikushino and Fukuoka, JP)
- Short term respiratory monitoring during tilt-table testing predicts periodic breathing/Cheyne-Stokes severity in patients with heart failure with reduced ejection fraction** P1733  
C. Borrelli, F. Gentile, F. Rossari, P. Sciarrone, C. Passino, G. Mirizzi, F. Bramanti, G. Iudice, M. Emdin, A. Giannoni (Pisa, IT)
- Vitamin D deficiency and treatment: impact in major outcomes and functional capacity in heart failure patients** P1734  
M. Cravo, A. Vigario, T. Ferreira, R. Rego, I. Marques, C. Mendonca (Porto, PT)

### ACUTE HEART FAILURE

- Treatment of cardiogenic shock complicating peripartum cardiomyopathy with the calcium sensitizer, levosimendan - data from the german PPCM registry** P1735  
T.J. Pfeffer, M. List, M. Ricke-Hoch, J.T. Sieweke, A. Schaefer, J. Bauersachs, D. Hilfiker-Kleiner (Hannover, DE)
- Traditional Chinese medicine use in the treatment of acute heart failure in Western medicine hospitals in China--Analysis from the China PEACE retrospective heart failure study** P1736  
Y. Yu, E.S. Spatz, Q.T. Tan, S.L.L.F.A. Masoudi, W.L. Schulz, H.M. Krumholz, J. Li (Beijing, CN; New Haven and Aurora, US)
- The effect of levosimendan on the short-term outcome of cardiopulmonary bypass surgery in cardiomyopathic patients** P1737  
M.M.H. Alnajjar, M.F.M. Rajab, W.A. Abukhudair, M.M. Shinnawy, H.M. Albutti, A.A. Badawy, E.F.H.A. Kaddah, A.A.A.A. Badawy, E.A. Salman (Jeddah, SA)
- The efficacy of tolvaptan in acute heart failure - an updated meta-analysis** P1738  
K. Tanhui, R. Maravilla, A. Buelva-Martin, E. Ongjoco, A. Sy-Lim, M. Villa (Manila, PH)

## Posters Sessions

- Levosimendan alone or combined with inotropes in an acute heart failure unit** P1739  
 B. Rocha, R. Ventura Gomes, B. Cunha, M. Ferraz, R. Morais, L. Fernandes, L. Campos, I. Araujo, C. Fonseca (Lisbon and Vila Franca de Xira, PT)
- Effects of levosimendan in patients with chagas cardiomyopathy hospitalized for acute heart failure** P1740  
 G.K. Perez Cortes, A. Arango-Carrasco, A. Orea-Tejeda, D. Gonzalez-Islas, L.F. Castillo-Aguilar, J.F. Hernandez-Diaz, A. Jimenez-Cepeda (Oaxaca de Juarez and Mexico City, MX)
- A formula to calculate discharge furosemide dose after an acute heart failure hospitalization** P1741  
 P. Lourenco, F. Cunha, J. Pereira, M. Carreira, P. Marques, A. Ribeiro, J.P. Araujo, P. Bettencourt (Porto and Penafiel, PT)
- Decrease in heart rate have more impact than up-titration of beta blocker for acute decompensated heart failure with atrial fibrillation** P1742  
 T. Morinaga, A. Isotani, S. Fujioka, K. Hirose, S. Mori, K. Ishizu, S. Ito, M. Yano, M. Fukunaga, S. Shirai, K. Ando (Kokura, JP)
- Optimized medical therapy at admission vs the moment of discharged in patient acute heart failure** P1743  
 L.C.S.P. Passos, A.G.Q.J. Grimaldi, W.C. Carvalho, T.C. Silva, T.M. Trindade, E.G. Lopes, A.C. Guimaraes, A. Seabra, M.C. Campos, I.L.S. Santana, H.M. Santos, D.C. Monteiro, V.O. Santos, L. Kassia, M.V. Barreto (Salvador, BR)
- Population pharmacokinetics of intravenous sufentanil in critically ill patients supported with extracorporeal membrane oxygenation therapy** P1744  
 J. Wi (Seoul, KR)
- Problem of 30-day readmission for Heart Failure could be improved. Results of IMPEDANCE-HF extended trial** P1745  
 M. Kleiner Shochat, D. Kapustin, M. Fudim, Y. Levy, M. Kazatsker, I. Kleiner, J.M. Weinstein, P. Panjrath, A. Roguin, S. Meisel (Hadera and Beer Sheva, IL; Toronto, CA; Durham and Washington, US)
- Use of non- invasive positive pressure ventilation is associated with worse short-term outcome after discharge for elderly patients with acute decompensated heart failure** P1746  
 M. Yukino, Y. Nagatomo, A. Goda, Y. Sujino, A. Mizuno, T. Kohno, Y. Shiraiishi, S. Kohsaka, T. Yoshikawa (Tokorozawa, Tokyo and Hidaka, JP)
- Influence of circulatory support devices on morbidity and mortality of cardiogenic shock after acute myocardial infarction.** P1747  
 R. Mourilhe Rocha, G.V. Santos, D.X.B. Setta, J.P. Mourilhe-Rocha, M.I. Bittencourt, R.S. Schneider, M.L.S. Bandeira, O.E. Farias, T.F. Carvalho, R.M. Carneiro, C.L. Weksler, F.O.D. Rangel, R. Esporcatte (Rio de Janeiro, BR)
- Precipitants of admission in heart failure; adherence & alteration of medication by other clinical services pose a challenge even in disease management programs** P1748  
 F. Rathore, R.B. Pharithi, K. McDonald (Dublin, IE)
- Development and validation of a Portuguese questionnaire to evaluate knowledge about heart failure** P1749  
 T. Fidelis, A. Azzam, A. Nunes, T. Limpo, E. Moreira, J.S. Cardoso, S.L. Castro (Porto, PT)
- Active screening using electronic medical record system for patient recruitment in case management of heart failure with reduced ejection fraction** P1750  
 C.T. Liao, F.H. Kuo, M.C. Lee, S.L. Lio, H.Y. Lai, E.C. Chu, P.L. Ko, Y.S. Yen, Z.C. Chen, H.S. Toh (Tainan, TW)
- The examination about the clinical feature related to re-admission in congestive heart failure patients introduced our original clinical pathway** P1751  
 H. Wake, A. Iwai, Y. Kuroiwa, T. Kubo, J. Inoue, N. Kajiwara, K. Kimura, Y. Katou, A. Takaishi (Kanonji, JP)
- The examination of the clinical feature to cause the further reduction of daily life independence level after admission in elderly cases with congestive heart failure** P1752  
 T. Kubo, H. Wake, A. Iwai, Y. Kuroiwa, J. Inoue, N. Kajiwara, K. Kimura, Y. Kato, A. Takaishi (Kanonji, JP)
- Residual congestion on discharge for Heart Failure assessed by impedance technique predicts 30-day and one-year All-cause death. Results of IMPEDANCE-HF extended trial** P1753  
 M. Kleiner Shochat, D. Kapustin, M. Fudim, M. Kazatsker, A. Asif, Y. Levy, I. Kleiner, J.M. Weinstein, G. Panjrath, A. Roguin, S. Meisel (Hadera and Beer Sheva, IL; Toronto, CA; Durham and Washington, US)

## Posters Sessions

- Heart failure digital coach: pilot findings of an avatar style application to improve symptoms, self-care and knowledge of heart failure** P1754  
G. Zisis, M.J. Carrington, J. Ball, T. Marwick (Melbourne, AU)
- Early reevaluation after acute heart failure: experience from a dedicated clinic** P1755  
G. Cunha, B. Rocha, R. Ventura Gomes, R. Morais, S. Quintao, C. Bastos, J. Campos, I. Araujo, C. Fonseca (Lisbon and Vila Franca de Xira, PT)
- Quality of care for patients hospitalized for heart failure in China -A hospital- and patient-level analysis from the China PEACE Retrospective Heart Failure Study** P1756  
Y. Yu, A.G. Gupta, Q.T. Tan, S.L. Liu, F.A.M. Masoudi, X.D. Du, J.Z. Zhang, H.M.K. Krumholz, J.L. Li (Beijing, CN; New Haven and Aurora, US)
- The relation between inflammatory biomarkers, persistent congestion and kidney dysfunction in acute heart failure with reduced ejection fraction: a prognosis study.** P1757  
N. Pugliese, I. Fabiani, L. Conte, L. Nesi, A. Christou, A.D. agostino, R. Pedrinelli, S. Masi, A. Natali, P.C. Colombo, F.L. Dini (Pisa, IT; New York, US)
- Impact of an integrated, patient-centred model of care for heart failure in-patients - A quality improvement initiative.** P1758  
I. Hopper, K. Easton, I. Bader, J. Campbell, P. Bergin, P. Markey, D. Kaye (Melbourne, AU)
- The care pathway prior to hospitalisation with acute decompensated heart failure: a comparison between two healthcare systems** P1759  
J. Mccambridge, C. Keane, M. Walshe, P. Campbell, J. Heyes, P.R. Kalra, M.R. Cowie, J.P. Riley, R.O. Hanlon, M. Ledwidge, J. Gallagher, K. Mcdonald (Dublin, IE; Portsmouth and London, GB)
- Characteristics, management, and outcomes of patients hospitalized for heart failure in China--the China PEACE retrospective heart failure study** P1760  
J. Li, Y. Yu, A. Gupta, C.Q. Wu, F.A. Masoudi, X. Du, J. Zhang, H.M. Krumholz (Beijing, CN; New Haven and Aurora, US)
- ACUTE HEART FAILURE - EPIDEMIOLOGY, PROGNOSIS, OUTCOME**
- Cardiogenic shock in intensive medicine care: are the old scores still useful?** P1761  
H. Miranda, I. Milet, N. Barros, I. Militao, F. Esteves (Lisboa and Vila Real, PT)
- The effect of rapid evaluation and treatment units on heart failure readmission rates: a retrospective analysis** P1762  
R. Ganesh, K. Favila, P. Fisher (New York, US)
- Predictive factors for recovery of left ventricular systolic function in stress cardiomyopathy** P1763  
Y. Kajikawa, M. Ikeda, A. Ueda, M. Hirota (Fukuyama, JP)
- Registry of Severe Acute Heart Failure. Impact of Renal Insufficiency for In-Hospital Mortality and Readmissions** P1764  
M.A. Quintana Da Silva, D. Viveros, J. Gimenez, D. Bedoya, J. Martinez, D. Venialgo (Asuncion, PY)
- Impact of COPD on short-term mortality of patients hospitalized for treatment of acute heart failure** P1765  
I. Arosi, A. Shahzadi, H. Hamdan, S. Carruthers, S. Asgari, A. Sultan (Wigan, GB)
- Clinical characteristics and quality of life of patients with atrial fibrillation in the Colombian Heart Failure Registry - RECOLFACA** P1766  
J. Gomez-Mesa, L. Echeverria, C. Saldarriaga (Cali, Floridablanca and Medellin, CO)
- Survival free of events during the vulnerable phase of heart failure** P1767  
C.I. Saldarriaga, G. Gonzalez, S. Navarrete, L.E. Echeverria, M.J. Novoa, N. Murillo, A. Rivera, M.J. Rodriguez, B. Rolong, G. Trout, C. Martinez, C.V. Arguello, L. Semanche, E. Contreras, J. Vanegas (Medellin, Bogota, Bucaramanga, Medellin, Pereira, barranquilla, Santa Marta, Medellin and manizales, CO)
- Gender-related differences in patients with acute heart failure: patient characteristics and clinical outcomes** P1768  
M. Anuntasainont, P. Sriparn, P. Lalitnithi, S. Kittiprachakul, C. Thimphitthaya, A. Trongtorsak, A. Ariyachaipanich (Bangkok, TH)

## Posters Sessions

- Prevalence prognostic impact of diabetes in heart failure with preserved, mid-range and reduced ejection fraction** P1769  
S.Y. Jang, B.E. Park, Y.J. Park, M.H. Bae, J.H. Lee, D.H. Yang, H.S. Park, Y. Cho, S.C. Chae (Daegu, KR)
- Clinical characteristics and long-term outcomes of patients with acute decompensated heart failure with mid-range ejection fraction** P1770  
M. Ito, H. Wada, T. Ibe, Y. Ugata, K. Sakakura, H. Fujita, S. Momomura (Saitama, JP)
- Association between length of stay and mortality or readmission in patients with acute heart failure** P1772  
P. Sriparn, M. Anuntasainont, C. Thimphitthaya, P. Lalitnithi, S. Kittiprachakul, A. Trongtorsak, A. Ariyachaipanich (Bangkok, TH)
- Acute heart failure in Mexico. a comparison between euroheart failure survey ii versus a Mexican tertiary centre.** P1773  
J. Magana Serrano, J.A. Magana-Serrano, J.A. Cigarroa-Lopez, H. Galvan-Oseguera, G. Maza-Juarez, A. Chavez-Mendoza, G.H. Mendoza-Zavala, J.A. Rayo-Chavez, V.M. Preve-Castro, M.J. Olalde-Roman, M.H. Garrido-Garduno, A. Tepayotl-Aponte, S.R. Claire-Guzman, G.H. Saturno-Chiu (Mexico City, MX)
- Association of left atrial enlargement with heart failure and cardiovascular events after acute coronary syndromes** P1774  
P.M. Araujo, S. Torres, C. Resende, A. Nunes, C. Sousa, M. Campelo, F. Macedo, M.J. Maciel (Porto, PT)
- Prognostic significance of worsening blood urea nitrogen in patients with acute heart failure** P1775  
P. Lalitnithi, P. Sriparn, M. Anuntasainont, C. Thimphitthaya, S. Kittiprachakul, A. Trongtorsak, A. Ariyachaipanich (Bangkok, TH)
- Clinical characteristics and outcomes of cardiorenal anemia syndrome (CRAS) patients stratified by admission diagnosis: Findings from the Gulf acute heart failure registry (Gulf CARE)** P1776  
M. Al Jarallah, R. Rajesh, I. Al Zakwani, B. Bulbanat, M. Ridha, K. Sulaiman, P. Panduranga, K. Alhabib, W. Almahmeed, A. Alsheik Ali, H. Alfaleh, H. Amin, A. Al-Motarreb, N. Bazargani, N. Asaad (Kuwait and Kuwait City, KW; Muscat, OM; Riyadh, SA; Abu Dhabi and Dubai, AE; Bahrain, BH; Sana'a, YE; Doha, QA)
- Clinical characteristics and outcomes of cardiorenal anemia syndrome (CRAS) patients stratified by left ventricular ejection fraction: Findings from the Gulf acute heart failure registry (Gulf CARE)** P1777  
M. Al Jarallah, R. Rajesh, I. Al Zakwani, B. Bulbanat, M. Ridha, K. Sulaiman, P. Panduranga, J. Al Suwaidi, W. Almahmeed, H. Amin, K. Alhabib, A. Al-Motarreb, A. Alsheik Ali, H. Alfaleh, N. Asaad (Kuwait and Kuwait City, KW; Muscat, OM; Doha, QA; Abu Dhabi and Dubai, AE; Bahrain, BH; Riyadh, SA; Sana'a, YE)
- Clinical phenotype and short-term outcome of acute heart failure in patients with mid-range ejection fraction: a prospective cohort study** P1778  
S. Atesler, N. Zannad, K. Khalife, M. Benichou, C. Goetz, A. Olivier (Metz and Nancy, FR)
- Lung injury, a clinical issue among patients with acute heart failure?** P1779  
I.R. Lala, D.A. Darabantiu, A. Pop-Moldovan, M. Puschita (Arad, RO)
- Complications after implants of cardiac electronic device in acute heart failure** P1780  
L.C.S.P. Passos, A.G.Q.J. Grimaldi, T.M. Trindade, T.C. Silva, W.C. Neves, A.C. Guimaraes, E.G. Lopes, A. Seabra, M.C. Dantas, I.L.S. Santana, D.C. Monteiro, H.M. Santos, V.O. Santos, L. Kassia, M.V. Barreto (Salvador, BR)

### CORONARY ARTERY DISEASE

- Predictors of in-hospital mortality in patients with acute coronary syndrome in Kosovo** P1781  
G. Bajraktari, E. Haliti, A. Ahmeti, A. Batalli, A. Poniku, E. Koci, A. Ferati, R. Leka, E. Zhubi, Z. Rexhaj, F. Zhubi-Bakija, A. Leka, F. Shatri, H. Selmani, S. Elezi (Pristina, XK)
- Left ventricular filling pressure as a useful marker of myocardial injury following elective percutaneous coronary intervention** P1782  
A.N. Elsheikh, A. Elsaid, E. Elquindy, A. Gafaar (Tanta, EG)



## Posters Sessions

- Clinical and angiographic Characteristics of coronary artery disease in patients referred to Egyptian catheterization laboratory. A single center study** P1783  
H. Badran, G. Soltan, A. Shalaby, S. Saad (Shebin, EG)
- 2-years follow-up of «Provisional-T» stenting of Left Main Coronary Artery in patients with true bifurcation stenosis** P1784  
Z. Shugushev, D.A. Maximkin, O. Safonova, A. Chepurnoy, A. Mambetov, A. Faibushevich, V. Baranovich, G. Veretnik, N. Sturov (Moscow, RU)
- Intraaortic balloon support for myocardial infarction with cardiogenic shock** P1785  
E. Omerovic (Gothenburg, SE)
- Prognosis of patients with chronic coronary artery disease undergoing to percutaneous coronary intervention (5 years follow-up)** P1786  
Z. Shugushev, D.A. Maximkin, A. Chepurnoy, O. Safonova, A. Mambetov, A. Faibushevich, N. Sturov, V. Baranovich, G. Veretnik (Moscow, RU)
- Prognostic impact of angiographic results in cardiogenic shock** P1787  
T. Javanainen, M. Banaszewski, J. Lassus, M. Nieminen, H. Tolppanen, T. Jantti, A. Kataja, M. Hongisto, L. Kober, A. Sionis, J. Parisis, T. Tarvasmaki, V.-P. Harjola, R. Jurkko (Helsinki, FI; Warsaw, PL; Copenhagen, DK; Barcelona, ES; Athens, GR)
- The role of intravascular imaging methods during performance percutaneous coronary interventions in patients with pseudobifurcation stenosis of the left main coronary artery** P1788  
Z. Shugushev, D.A. Maximkin, A. Chepurnoy, O. Safonova, A. Faibushevich, V. Baranovich, G. Veretnik (Moscow, RU)
- SCAD (Spontaneous coronary artery dissection)- United Kingdom (UK) data an observation study of PSCAD (Pregnancy/Post partum associated SCAD) vs. Non PSCAD (Non- Pregnancy/ Post partum associated SCAD)** P1789  
N. Natarajan, D.A. Adlam (Leicester, GB)
- VEGF-A gene polymorphism and VEGF-A level association with the development of heart failure in patients with ST-elevation myocardial infarction** P1790  
I. Rodionova, I.N. Kutya, M.P. Kopytsya, Y.J. Samburg, N.V. Tytarenko, B.A. Shelest (Kharkiv, UA)
- The biomarker gdf 15 in a 5-year prediction of adverse outcomes in patients with acute coronary syndrome** P1791  
I.R. Vyshnevskaya, M.P. Kopytsya (Kharkiv, UA)
- Role of novel biomarkers of renal injury in patients with st segment elevation myocardial infarction** P1792  
I.R. Vyshnevskaya, M.P. Kopytsya, Y.V. Hilova, O.V. Petyunina (Kharkiv, UA)
- Impact of left anterior descending artery wrapping around the left ventricular apex on cardiac mechanics in patients with normal coronary angiography** P1793  
H. Badran, G. Soltan, W. Abdou, T. Alakshar (Shebin, EG)
- Clinical significance and dynamics of biomarkers of myocardial remodeling in patients with ST segment elevation myocardial infarction and preserved left ventricular function** P1794  
T. Pecherina, E. Zhuravleva, V. Kashtalap, O. Barbarash (Kemerovo, RU)
- The influence of gene polymorphism of enos on the course of afterinfarction period** P1795  
O.V. Petyunina, M.P. Kopytsya, A.E. Berezin, I.R. Vyshnevskaya (Kharkiv and Zaporizhzhya, UA)
- Complete revascularization on patients presenting with cardiogenic shock: real life data.** P1796  
I. Almeida, H. Miranda, H. Santos, J. Chin, C. Sousa, S. Almeida, J. Tavares (Barreiro, PT)
- Cardiac arrest predictors in cardiogenic shock** P1797  
H. Santos, T. Vieira, J. Fernandes, R. Pinto, T. Filipa, A.R. Ferreira, M. Rios, T. Honrado (Barreiro and Porto, PT)

### VALVULAR HEART DISEASE

- Opportunity or futility? TAVI in elderly patients with depressed ejection fraction and severe aortic stenosis.** P1798  
J.M. Vietez Florez, G. Alonso Salinas, L. Salido Tahoces, M. Abellas Sequeiros, A. Lorente Ros, R. Garcia, J.L. Mestre Barcelo, S. Del Prado Diaz, A. Pardo, R. Hernandez Antolin, J.L. Zamorano (Madrid, ES)

## Posters Sessions

- MitraClip: impact on symptoms and quality of life** P1799  
 J. Rigueira, E. Infante-Oliveira, R. Santos, T. Rodrigues, I. Aguiar-Ricardo, J.R. Agostinho, N. Cunha, A. Nunes-Ferreira, P.S. Morais, P. Antonio, A.R. Francisco, M. Nobre Menezes, P. Carrilho-Ferreira, F.J. Pinto, P. Canas Da Silva (Lisbon, PT)
- Prognostic impact of MitraClip in patients with left ventricular dysfunction and functional mitral valve regurgitation: a comprehensive meta-analysis of RCTs and adjusted observational studies.** P1800  
 M. Bertaina, A. Galluzzo, F. Conrotto, W. Grosso Marra, S. Frea, G. Alunni, G. Crimi, C. Moretti, A. Montefusco, M.D.amico, M. Rinaldi, F.D.ascenzo (Turin and Pavia, IT)
- Severe mitral regurgitation:mortality and morbidity predictors after percutaneous mitral valve repair with the mitraClip system** P1801  
 R. Santos, E. Infante-Oliveira, P. Carrilho-Ferreira, M. Nobre-Menezes, A.R. Francisco, J. Rigueira, J.R. Agostinho, I. Aguiar-Ricardo, A. Nunes-Ferreira, T. Rodrigues, N. Cunha, P. Antonio, P.S. Morais, F.J. Pinto, P. Canas Da Silva (Lisbon, PT)
- Malnutrition in patients undergoing tricuspid valve edge-to-edge repair: incidence, clinical features and prognostic importance** P1802  
 M. Unterhuber, C. Besler, K.-P. Rommel, M. Von Roeder, T. Noack, M. Borger, J. Ender, H. Thiele, P. Lurz (Leipzig, DE)
- Multiparametric evaluation of percutaneous mitral valve repair (MitraClip) after 6 months** P1803  
 C. Vignati, F. De Martino, E. Salvioni, M. Mapelli, V. Mantegazza, L. Fusini, P. Gripari, G. Tamborini, M. Muratori, S. Ghulam Ali, M. Pepi, P. Agostoni (Milan, IT)
- The impact of transcatheter aortic valve implantation on aortic elasticity and arterial function** P1804  
 V. Gardikioti, D. Terentes-Printzios, C. Vlachopoulos, K. Toutouzas, M. Xanthopoulos, M. Karpalioti, G. Latsios, E. Katsianos, G. Siasos, E. Vavuranakis, D. Tousoulis (Athens, GR)
- Clinical impact of new generation of prosthesis in aortic regurgitation after transcatheter aortic valve replacement** P1805  
 M. Munoz-Garcia, E. Munoz-Garcia, A.J. Munoz Garcia, A.J. Dominguez-Franco, J.M. Garcia-Pinilla, L. Morcillo-Hidalgo, J.H. Alonso-Briales, J.M. Hernandez-Garcia, M.F. Jimenez-Navarro, E. De Teresa-Galvan (Malaga, ES)
- Risk willingness and survival in patients with severe aortic stenosis.** P1806  
 A.I. Hussain, C. Brunborg, A. Auensen, J.O. Beitnes, L. Gullestad, K.I.P. Pettersen (Oslo, NO)
- MYOCARDIAL DISEASE**
- The register of pericarditis in the university therapeutic clinic: nosological spectrum, approaches to diagnosis and treatment** P1807  
 O.V. Blagova, A.V. Nedostup, E.A. Kogan, G.Y. Sorokin, V.P. Sedov, N.D. Sarkisova (Moscow, RU)
- Acute myocarditis: a retrospective study** P1808  
 S. Antit, A. Bouthouri, I. Boussabeh, M. Thameur, L. Zakhama, S. Benyoussef (Marsa, TN)
- Neutrophil to lymphocyte ratio as a predictor of myocardial injury in patients presenting with myocarditis** P1809  
 S. Borges, F. Goncalves, J.P. Guimaraes, J.J. Monteiro, C. Ferreira, J.I. Moreira (Vila Real, PT)
- The superimposed myocarditis in arrhythmogenic right ventricular cardiomyopathy: the role in the course of the disease and the results of treatment** P1810  
 Y.A. Lutokhina, O.V. Blagova, A.V. Nedostup, S.A. Alexandrova, E.A. Mershina, V.A. Zaidenov, A.G. Shestak, E.V. Zaklyazminskaya (Moscow, RU)
- Combination immunosuppressive therapy with prednisone and azathioprine for virus-negative inflammatory cardiomyopathy: meta-analysis of all available evidence** P1811  
 P.H.T. Timmermans, A. Barradas-Pires, O. Ali, M. Henkens, S. Heymans, K. Negishi (Hasselt, BE; London, GB; Detroit, US; Maastricht, NL; Hobart, AU)
- High circulating ferritin predicts oedema and fibrosis assessed in cardiac magnetic resonance in patients with acute myocarditis** P1812  
 A. Kosiorek, P. Franczuk, P. Gac, M. Drozd, M. Tkaczyszyn, T. Walczak, A. Zapolska, K. Kulej-Lyko, N. Sidorowicz, A. Soltowska, W. Banasiak, J. Jaroch, P. Ponikowski, E.A. Jankowska (Wroclaw, PL)

## Posters Sessions

- Diagnostic value of NT proBNP in patients with myocarditis and preserved left ventricular systolic function** P1813  
S. Borges, F. Goncalves, J.P. Guimaraes, J.J. Monteiro, C. Ferreira, J.I. Moreira (Vila Real, PT)
- Assessment of left ventricular mechanics before and after surgical myectomy in patients with hypertrophic obstructive cardiomyopathy, using two dimension speckle tracking echocardiography.** P1814  
H. Badran, A. Alamin, N. Faheem, T. Salman, M.H. Yacoub (Shebin and Cairo, EG; London, GB)
- Correlations between electrocardiography and echocardiography in hypertrophic cardiomyopathy** P1815  
S. Albu, L. Mandes, M. Rosca, B. Popescu, E. Apetrei, C. Ginghina, R. Jurcut (Bucharest, RO)
- Left ventricular longitudinal strain is a predictor of mortality in hypertrophic cardiomyopathy** P1816  
H. Badran, G. Soltan, N. Faheem, A. Yehia, M.H. Yacoub (Shebin, EG; London, GB)
- Modern strategy in hypertrophic cardiomyopathy treatment: a single European center experience** P1817  
K. Rudenko, V. Lazoryshynets, O. Krykunov, O. Chyzhevskaya, L. Nevmerzhytska, O. Trembovetska, P. Danchenko (Kiev, UA)
- The prognostic value of myocardial fibrosis MRI in assessing the risk of progression of heart failure in patients with HCM** P1818  
O. Shatova, E. Zakharova, S. Komissarova, E. Vankovich, I. Haidzel (Minsk, BY)

### PULMONARY CIRCULATION, PULMONARY EMBOLISM, RIGHT HEART FAILURE

- Atrial volumes ratio as a predictor of hemodynamic phenotype in patients with pulmonary hypertension** P1819  
N.P.D. Cunha, R. Placido, T. Guimaraes, N. Cortez-Dias, J.R. Agostinho, I. Aguiar-Ricardo, J. Rigueira, R. Santos, A. Nunes-Ferreira, T. Rodrigues, A. Mineiro, S. Martins, N. Lousada, F.J. Pinto (Lisbon, PT)
- Prognostic impact of left ventricle dysfunction in patients with pulmonary hypertension** P1820  
R. Santos, R. Placido, T. Guimaraes, N. Cortez-Dias, J.R. Agostinho, J. Rigueira, I. Aguiar-Ricardo, A. Nunes-Ferreira, T. Rodrigues, N. Cunha, N.C. Andre, A. Mineiro, S. Martins, N. Lousada, F.J. Pinto (Lisbon, PT)
- Hemodynamic profile of pulmonary arterial hypertension: comparison among subgroups. Insights of the first collaborative registry of pulmonary hypertension in Argentina (RECOPILAR)** P1821  
M.L. Coronel, E.R. Perna, D. Echazarreta, G. Tuhay, M.L. Talavera, L. Lema, Y. Bazan, V. Gregoriotti, B. Varela, A. Guerrero, D. Bustos, M. Quaranta, V. Quino, M. Cordoba (Corrientes, La Plata, Buenos Aires, Cordoba, Rosario, Florencio Varela, Buenos Aires, San Luis, Venado Tuerto, Resistencia and Mar del Plata, AR)
- Prognostic value of baseline and change of NT-proBNP plasma concentrations in pre-capillary pulmonary hypertension** P1822  
A. Vigario, S.I. Correia, I. Furtado, C. Maia Cruz, F. Goncalves, L. Carvalho, M. Santos, A. Reis (Porto and Braga, PT)
- Correlation between cardiac index and right ventricular systolic function in our patients with pulmonary hypertension.** P1823  
A. Lescano, R. Caprini, E. Besmalinovich, G. Sorasio, A.R.A. Rossi, C.M.C. Musante, M.V.M. Vergara, J.F.J. Farina, C. Miranda, R. Skena (Buenos Aires, AR)
- Pulmonary Hypertension. When the experience overcomes the evidence** P1824  
A. Lescano, A. Rossi, R. Caprini, E. Besmalinovich, G. Sorasio, C. Miranda, M. Vergara, C. Musante, I. Fernandez, F. Stroschein, J. Farina, R. Skena (Buenos Aires, AR)
- Evaluation of nutritional status by body mass index in patients with pulmonary arterial hypertension in Latin America** P1825  
L. Lema, V. Quino, V. Saurit, L. Secco, A. Diez, D. Echazarreta, M.L. Coronel, E.R. Perna, M. Diez, A. Lescano, A. Atamanuk, C. Botta, V. Rios, J.P. Escalante (Cordoba, Buenos Aires, Rosario, La Plata, Corrientes, Santa Fe and Posadas, AR)
- Post-resuscitation arterial oxygen and carbon dioxide partial pressures abnormalities are not associated to outcomes after out-of-hospital cardiac arrest attributed to acute pulmonary embolism** P1826  
D. Roque, J.S. Simoes, D. Faria, J. Ferreira, H.F. Ferreira, M.B. Beringuilho, C.M. Morais (Amadora, PT)

## Posters Sessions

### HYPERTENSION

- Comparison of 24 hours Ambulatory Central Blood Pressure Reduction Efficacy between Amlodipine- and Hydrochlorothiazide-Based Therapies Combined with Losartan** P1827  
 E.J. Cho, H.Y. Lee, K.C. Sung, S.H. Park, I.S. Sohn, C.K. Park, D.J. Choi, J.W. Ha, Y.K. Ahn, J.H. Shin, S.J. Hong, S.K. Kim, W.J. Chung, H.K. Jeon, C.J. Kim (Seoul, Seongnam, Gwangju, Guri, Incheon and Uijeongbu, KR)
- Predictors of blood pressure response to renal revascularization in renal artery stenosis' patients presenting acute cardiac syndromes** P1828  
 D.O. Geavlete, C. Beladan, D. Deleanu, M.R. Zaharia, O. Tautu, B.A. Popescu, C. Ginghina, C. Chioncel (Bucharest, RO)
- Morning rise in blood pressure according to ambulatory blood pressure monitoring in patients with hypertension and chronic heart failure** P1829  
 V.N. Larina, E.V. Fedorova, V.P. Sidorova (Moscow, RU)
- The role of hyperuricemia in the progression of chronic heart failure in patients with arterial hypertension** P1830  
 G. Igimbayeva, C.H. Abylkanov, K. Ibrayeva, K. Amanova, B. Kanibekova (Karaganda, KZ)
- Daily monitoring pulse wave velocity and other indicators of arterial stiffness in hypertensive patients comorbid with chronic obstructive pulmonary disease** P1831  
 T. Aksenova, V. Gorbunov, S. Tsarenok, P. Gromov, S. Lukyanov (Chita, RU)
- Interaction between central hemodynamics and left ventricular geometry in patients with preserved ejection fraction** P1832  
 A. Shavarov, G.K. Kiyakbaev, Z.D. Kobalava (Moscow, RU)
- Influence of hypertension on QT dispersion and systolic left ventricular function in patients with angina pectoris** P1833  
 V. Stoickov, M. Deljanin Ilic, M. Stoickov, S. Saric, D. Marinkovic, I. Tasic, D. Simonovic, I. Stoickov Nis and Niska Banja, RS)
- Evaluation of left ventricle dysfunction and endothelin-1 level in arterial hypertension of renal genesis under influence of therapy** P1834  
 N. Demikhova, T. Mazur, A. Demikhov (Sumy, UA)
- Personifying role of natriuretic peptides in patients with essential hypertension** P1835  
 I. Gubareva, N. Kryukov, E. Gubareva (Samara, RU)
- Uncontrolled hypertensives with heart failure with preserved ejection fraction-adherence to therapy** P1836  
 L. Popescu, H. Balan (Bucharest, RO)
- Association AG polymorphism of a MTHFR gene in development of an ischemic stroke in patients with an arterial hypertension** P1837  
 A. Chernova, S. Nikulina, S. Tretyakova, A. Semenchukov, D. Nikulin, I. Platonova, O. Marylovceva, A. Kelemeneva (Krasnoyarsk, RU)
- Association of polymorphism of 9 chromosome in development of an ischemic stroke in patients with an arterial hypertension** P1838  
 A. Chernova, D. Nikulin, S. Tretyakova, A. Semenchukov, O. Marilovceva, I. Platonova, S. Nikulina (Krasnoyarsk, RU)

### CARDIOVASCULAR NURSING

- The development of e-health tools to support dietary sodium assessment, behavioural modification and shared decision making in clinical practice** P1839  
 J. Arcand, M. Ahmed (Oshawa and Toronto, CA)
- Cultural factors and power relations influencing willingness to follow self-care recommendation: a qualitative study** P1840  
 O. Osokpo (Philadelphia, US)
- How do race, education, and income adequacy affect self-care maintenance in adults with heart failure?** P1841  
 F.O. Baah, B. Carlson, K.A. Sethares, M. Daus, D.K. Moser, B. Riegel (Philadelphia, San Diego, North Dartmouth and Lexington, US)

## Posters Sessions

- Technology acceptance model for Control VIT: heart failure patient follow-up mobile Application** P1842  
D.M. Achury, R.G. Gonzalez, A.G. Garcia, A.M. Marino, W.B. Bohorquez, L.A. Aponte (Bogota, CO)
- Collaborating with a patient organisation to implement a physical activity intervention** P1843  
L. Klompstra, A. Stromberg, L. Askenas, J. Aidemark, T. Jaarsma (Linkoping and Vaxjo, SE)
- Ex vivo allograft perfusion for heart transplantation: single centre experience** P1844  
A. Mukash, R.B. Kaliyev, Z.H.A. Nurmykhametova, L.R. Faizov, Z.H.Z. Ashyrov, B.K. Zhunussov, T. Kyttybai, N. Utin, G. Nadirbekova, Y.V. Pya (Astana, KZ)
- Development of nursing care protocol to the patient with extracorporeal membrane oxygenation** P1845  
T. Maurer, E.N. Souza, A.V. Leao (Porto Alegre, BR)
- The adherence to pharmacological treatment in patients with chronic heart failure** P1846  
N. Swiatoniowska, A. Szymanska-Chabowska, J. Gajek, B. Jankowska-Polanska (Wroclaw, PL)
- Feeling powerless to deal with thirst in heart failure patients: a qualitative study of health care providers** P1847  
J. Ehrlin, T. Jaarsma, S. Hagelberg Eng, V. Diaz, B. Gonzalez, N. Waldreus, C. Rivas, P. Velayos, P. Martin, M. De Antonio, M. Domingo, P. Moliner, E. Santiago-Vacas, J. Lupon, A. Bayes-Genis (Linkoping and Huddinge, SE; Badalona, ES)
- Thirst distress in heart failure outpatients in a Spanish cohort** P1848  
S. Hagelberg Eng, J. Ehrlin, B. Gonzalez, V. Diaz, T. Jaarsma, N. Waldreus, C. Rivas, P. Velayos, M. Puertas, M. Cacheiro, A. Morales, A. Ros, P. Martin, J. Lupon, A. Bayes-Genis (Linkoping and Huddinge, SE; Badalona, ES)
- Effects of person-centred telephone-support on fatigue in people living with chronic heart failure: a randomized trial** P1849  
S. Wallstrom, A. Fors, L. Ali, K. Swedberg, I. Ekman (Gothenburg, SE)
- Psychometric evaluation of the polish version of the council on nutrition (CNAQ) and simplified nutritional (SNAQ) appetite questionnaires in a group of patients with chronic heart failure.** P1850  
M. Wleklík, M. Lisiak, C. Andreae, I. Uchmanowicz (Wroclaw, PL; Linkoping, SE)
- What HF patients really need. A systematic review and meta-synthesis.** P1851  
M. Kyriakou, C. Deaton, A. Samara, K. Philippou, I. Lakatamitou, A. Lambrinou (Limassol, CY; Cambridge, GB)
- Clinical outcome of cardiac resynchronization therapy patients under a multidisciplinary outpatient clinic model** P1852  
M. Ferreira, P. Sarmento, A.F. Carvalho, F. Pousinho, M. Oliveira, F. Farias, R. Ferreira (Lisbon, PT)
- BASIC SCIENCE - ISCHEMIA**
- Basic Science - Ischemia - Poster Discussant - 10:00-11:00** P1853  
Frances Ashcroft (Oxford, GB); Nazha Hamdani (Bochum, DE)
- Polyurethane-based scaffold for cardiac aging studies** P1854  
F. Vozzi, M. Cabiati, C. Domenici, N. Vitale, F. Logrand, A. Ahluwalia, I. Carmagnola, G. Ciardelli, S. Del Ry, S. Sartori (Pisa, torino and Turin, IT)
- Lack of macroscopically-evident cardiac regeneration or spontaneous functional recovery in infarcted neonatal pigs** P1855  
K. Malliaras, E. Polychronopoulou, I. Poulakida, D. Sagris, K. Makaritsis (Larissa, GR)
- Yes-associated protein (YAP) transcriptional coactivator functions in myocardial infarction** P1856  
A. Tsiptsis, A.M. Athanasiadou, G. Agrogiannis, E. Petrou, P. Athanasiadou, G. Athanassopoulos, N. Kavantzias (Athens, GR)
- Transcriptional response HIF1a and HSP70 to hypoxic stress in myocardial ischemia** P1857  
A. Tsiptsis, A.M. Athanasiadou, G. Agrogiannis, E. Petropoulou, P. Athanasiadou, G. Athanassopoulos, N. Kavantzias (Athens, GR)
- Association rs619203 polymorphism of a ROS1 gene development of an ischemic stroke in patients with an arterial hypertension** P1858  
A. Chernova, S. Nikulina, D. Nikulin, I. Platonova, O. Marylovceva, A. Semenchukov, S. Tretyakova (Krasnoyarsk, RU)

## Posters Sessions

- Characterization of a novel closed chest model of ischemic mitral regurgitation in pigs** P1859  
 O. Hamza, A. Kiss, A.M. Kramer, S. Trojaneck, K.E. Tillmann, I. Goncalves, V. Tretter, D. Abraham, U.K. Klein, B.K. Podesser (Vienna, AT)
- Association of titin truncating variants with adverse course of HFrEF in patients with postinfarction cardiosclerosis.** P1860  
 A. Kiselev, E. Lyasnikova, A. Kuular, O. Lebedenko, V. Tishkova, A. Muraviev, Y. Vahrushev, M. Sitnikova, A. Kostareva (Saint Petersburg, RU)
- Cannabinoid-sensitive receptor GPR55 deficiency impairs wound healing kinetics and aggravates remodelling post myocardial infarction** P1861  
 S.L. Puhl, M. Hilby, S. Steffens (Munich, DE)

### BASIC SCIENCE - CARDIOMYOPATHIES 1

- Basic Science - Cardiomyopathies - Poster Discussant - 10:00-11:00.** P1862  
 Dana Dawson (Aberdeen, GB)
- A novel peptide agonist of galanin receptors reduces doxorubicin-induced heart failure in rats** P1863  
 R.O. Lyubimov, I.M. Studneva, M.E. Palkeeva, A.A. Molokoedov, A.V. Prosvirnin, O.M. Veselova, M.V. Ovchinnikov, O.A. Mokhi Eddin, M.V. Sidorova, O.I. Pisarenko (Moscow, RU)
- Impact of glutathione S-transferase M1, T1 and P1 gene polymorphisms on the chronic heart failure** P1864  
 N. Jankovic, V. Coric, S. Suvakov, D. Simic (Belgrade, RS)
- Murine Experimental Autoimmune Myocarditis (EAM) is associated with LV hypertrophy but not with reduced LV systolic function** P1865  
 M. Mirna, V. Paar, T. Kraus, K. Sotlar, B. Wernly, R. Pistulli, M. Lichtenauer (Salzburg, AT; Münster, DE)
- Role of innate immune mediators in cardiac damage induced by Doxorubicin in vitro** P1866  
 J. Gambardella, A. Fiordelisi, M. De Rosa, M. Ciccarelli, B. Trimarco, G. Iaccarino, D. Sorriento (Naples and Salerno, IT)
- Genetics and Histopathology Features of Noncompaction Cardiomyopathy in heart transplant individuals** P1867  
 S. Liu, Y. Xie, H. Zhang, Y. Wei (Beijing, CN)
- Progression of cardiac and vascular dysfunction in a mouse model of Duchenne muscular dystrophy** P1868  
 P.L. Szabo, O. Hamza, M. Inci, K. Hilber, J. Ebner, B.K. Podesser, A. Kiss (Vienna, AT)
- Inhibition of cardiac lymphangiogenesis in imatinib-induced cardiomyopathy** P1869  
 K. Urbanek, D. Madeddu, S. Cavalli, C. Frati, A. Falco, B. Lorusso, D. Cappetta, L. Berrino, A. De Angelis, F. Quaini (Naples and Parma, IT)
- Proarrhythmic interaction of Nav1.8 and CaMKII in human heart failure** P1870  
 P. Tirilomis, S. Ahmad, P. Bengel, S. Pabel, N. Dybkova, L. Maier, K. Streckfuss-Boemeke, G. Hasenfuss, S. Sossalla (Göttingen and Regensburg, DE)

### BASIC SCIENCE - CARDIOMYOPATHIES 2

- Basic Science - Cardiomyopathies - Poster Discussant 10:00-11:00.** P1871  
 Tomasz Guzik (Glasgow, GB)
- The novel role of calmodulin regulation on myofilament function: calmodulin-myosin interaction discovered** P1872  
 V. Sequeira, N.H. Hamdani, E.B. Bertero, S.C. Conijn, C.O. Ottenheijm, J.V.D.V. Van Der Velden, C.M. Maack, C.J. Johnson (Wurzburg and Bochum, DE; Amsterdam, NL; Nashville, US)
- Arrhythmogenic cardiomyopathy in a dish based on patient specific induced pluripotent stem cells** P1873  
 A. Moreau, A. Janin, A.C. Mell, C. Valla, A. Charrabi, A. Faucherre, C. Joplring, S. Richard, A. Mejat, P. Chevalier (Montpellier and Lyon, FR)
- Sera from myocarditis patients caused iron depletion in cultured human cardiomyocytes** P1874  
 K.A. Kobak, J. Schubert, M. Dziegala, M. Kasztura, P. Franczuk, M. Drozd, K. Kulej-Lyko, J. Bania, P. Ponikowski, E.A. Jankowska (Wroclaw, PL)

## Posters Sessions

- Mir-146a plasma levels are increased in patients with hypertrophic cardiomyopathy** P1875  
D. Ntelios, G.K. Efthymiadis, S. Meditskou, T. Zegkos, D. Parcharidou, H. Karvounis, G. Tzimagiorgis (Thessaloniki, GR)
- Reactivation of fetal gene program, cardiomyocyte dedifferentiation and hypertrophy in heart failure** P1876  
T. Kulikova, O. Stepanova, A. Voronova, M. Valikhov, I. Zhironov, V. Masenko, A. Samko, S. Tereshchenko, I. Reshetov, G. Sukhikh (Moscow, RU)
- Myocardial perfusion disturbance in the development of chronic Chagas cardiomyopathy** P1877  
L.F.L. Oliveira, J.T. Thackeray, D.M. Tanaka, J.A. Marin-Neto, M.M.D. Romano, E.E.V. Carvalho, J. Mejia, C. Malamut, F.M. Bengel, S.G. Nekolla, M.V. Simoes (Ribeirao Preto, Sao Paulo and Belo Horizonte, BR; Hannover and Munich, DE)
- Oxidative sensitivity of sarcomeric titin isoforms gradually decline during cardiac development** P1878  
B. Bodi, E. Pasztorne Toth, L. Marth, A. Kovacs, A. Toth, Z. Papp (Debrecen, HU)
- A novel phospholamban p.Arg14del cardiomyopathy mouse line treated with heart failure medication** P1879  
T.R. Eijgenraam, E.M. Schouten, A.C.D.I. Gehlken, M.M. Dokter, H.H.W. Silje, R.A. De Boer (Groningen, NL)
- MicroRNAs expression in hypertrophic cardiomyopathy patients.** P1880  
G.A. Shakaryants, M.V. Kozhevnikova, V.Y. Kaplunova, E.V. Privalova, Y.U.N. Belenkov, S.S. Osipova (Moscow, RU)
- The altered expression of autophagy-related genes participates in heart failure: NRBP2 and CALCOCO2 decrease left ventricular function in human dilated cardiomyopathy** P1881  
E. Rosello-Lleti, C. Gil-Cayuela, A. Lopez, L. Martinez-Dolz, J.R. Gonzalez-Juanatey, F. Lago, M. Portoles (Valencia and Santiago de Compostela, ES)
- Identification of RAF1 gene mutations in Hungarian patients with hypertrophic cardiomyopathy** P1882  
L. Hategan, M. Katona, A. Tringer, B. Csanyi, J. Borbas, V. Nagy, Z. Hegedus, I. Nagy, T. Forster, R. Sepp (Szeged and Morahalom, HU)
- A risk prediction score for early-medium term adverse events in patients with infective endocarditis** P1883  
A.R. Pereira, A. Briosa, I. Cruz, A. Marques, A.L. Broa, S. Alegria, A.C. Gomes, A.R. Almeida, H. Pereira (Almada, PT)
- Air pollution on myocardial remodeling in acute phase of Chagas disease in experimental model.** P1884  
K. Fonseca, F.G. Pessoa, C. Mady, V.T. Hotta, O.N. Ribeiro, F. Fernandes, B.M. Ianni, P.H.N. Saldiva, F.J.A. Ramires (Sao Paulo, BR)
- Cardiomyocyte-specific STAT3 deficiency alters the epigenetic program of cardiac progenitor cells from endothelial towards adipocyte priming** P1885  
E. Stelling, M. Ricke-Hoch, A.K. Bergmann, S. Erschow, M. Scherr, S. Hoffmann, J.-L. Balligand, D. Hilfiker-Kleiner (Hannover and Jena, DE; Brussels, BE)
- RBM20 missense variant presenting as acute myocarditis and postpartum cardiomyopathy.** P1886  
A. Kiselev, T. Vershinina, L. Butish, P. Fedotov, Y.U. Fomicheva, A. Kozyreva, Y.U. Vakhruшев, A. Latypov, A. Morozov, A. Kozyrev, E. Vasichkina, T. Pervunina, A. Kostareva, A. Kostareva (St. Petersburg, RU)
- A rare case of Prader-Willi syndrome presenting with heart failure due to dilated cardiomyopathy** P1887  
A. Zlotina, O. Melnik, T. Vershinina, Y. Fomicheva, A. Kozyreva, L. Butish, T. Pervunina, E. Vasichkina, A. Kostareva (Saint-Petersburg, RU)
- Polymorphisms in the CYP11B2 and AGT genes related to the renin-angiotensin-aldosterone system and their correlation with ischemic and non-ischemic phenotypes in patients with chronic heart failure.** P1888  
R. Mourilhe Rocha, G. Rodrigues, F.N. Albuquerque, G.S. Duque, Y. Rollemberg, D.C. Albuquerque, D.A. Silva (Rio de Janeiro, BR)
- Investigation of atrial remodeling induced by exercise training in a rodent model of athletes heart** P1889  
A. Olah, B.A. Balint, A.A. Sayour, E. Urban, E. Virag-Tulassay, M. Ruppert, B. Merkely, T. Radovits (Budapest, HU)
- Human cardiac precursor cell secreted exosomes improved cardiac function of cardiomyopathic myocytes** P1890  
Y.Y.L. Li, W. Chen (Taipei, TW)

## Posters Sessions

### CLINICAL CASES

- A curious case of syncope in an implantable cardioverter defibrillator patient.** P1891  
J. Stassen, D. Dilling-Boer, J. Vijgen, P.J.R. Timmermans (Hasselt, BE)
- Impact of ICD implantation and PVI in patient with Isolated left ventricular apical hypoplasia accompanied by left ventricular noncompaction** P1892  
V.I. Skidan, Y.U. Aseeva, H.A. Bsharat, A.A. Avyasov, T.V. Musurivskaya (Khabarovsk, RU)
- Atrial and atrioventricular resynchronization therapy bachmanns bundle and his bundle pacing** P1893  
P. Wolff, P. Strozik, J.M. Zawadzki, A. Gajek, E. Sonntag, D. Zysko, A. Ciesielski, A. Slawuta, J. Gajek (Wroclaw and Klodzko, PL)
- Bundle branch reentrant tachycardia treated with cardiac resynchronization therapy in a patient with dilated cardiomyopathy** P1894  
P. Koudounis, M. Agelaki, A. Christou, P. Manolakou, P. Serafeim, D. Tagoulis, P. Lagadinis, A. Papadaki, A. Papadopoulos, P. Fragkou, T. Zografos, I. Tsiafoutis, N. Bourmpoulis, K. Flessa, A. Katsivas (Athens, GR)
- Acute myocarditis in a young patient after hypoxic gases exposure** P1895  
C. Margineanu, E.L. Antohi, R. Radu, E. Stoica, I.-D. Kulcsar, O. Geavlete, P. Platon, C. Macarie, O. Chioncel (Bucharest1, RO)
- Rapid recovery of myocardial dysfunction in an oncologic patient** P1896  
M. Emmanouilidou, A. David- Cojocariu, L. Jahjah, A. Deleporte, P. Unger (Brussels, BE)
- Heart failure in a hypertrophic cardiomyopathy phenotype with an unknown genetic mutation: a new aggressive variant?** P1897  
S. Gentile, M. Scigliano, C. Di Filippo, S. Del Pace, R. Marcucci (Florence, IT)
- Primary systemic amyloidosis, a rare cause of congestive heart failure** P1898  
C.I. Radulescu, A. Covaliov, M. Alexandrescu, A. Jercan, S. Badelita (Bucharest, RO)
- Clinical presentation of a novel pathogenic variant in MYBPC3 gene** P1899  
D. Balkute, D. Silinskiene, J. Simonavicius, V. Maneikiene, V. Mikstiene, E. Preiksaitiene, R. Norvilas, J. Celutkiene, A. Laucevicus (Vilnius, LT)
- Combination of novel pathogenic variants in sarcomeric proteins genes and GLA gene in relatives with hypertrophic cardiomyopathy** P1900  
E. Sadauskiene, I. Eitaviciute, L. Venceviciene, J. Barysiene, Z. Petrulioniene, K. Vencevicus (Vilnius, LT)
- Left ventricular hypertrophy in young man with stroke and end stage renal failure** P1901  
A. Siam, S. Giannitsi, T. Manolaki, A. Tsoukas, A.-J. Manolis (Athens, GR)
- A rare case report of binodal disease as a presentation of hypertrophic cardiomyopathy** P1902  
K.F.C. Li, E.M. Lee, D. Foo (Singapore, SG)
- Two cardiomyopathies in one clinical case** P1903  
M. Rabai, L. Czopf, L. Toth, K. Toth, T. Habon (Pecs, HU)
- Hypertrophic cardiomyopathy and dynamic left ventricular outflow tract obstruction, a possible pathophysiological mechanism of injury in takotsubo cardiomyopathy.** P1904  
H. Zaw, S. Fawaz, O. Dhillon (Chelmsford, GB)
- A Case of a Pendulum Heart** P1905  
A. El Gohary (Giza, EG)
- Chicken or egg? A case of tako-tsubo cardiomyopathy and spontaneous coronary dissection** P1906  
S. Jogani, P.S.R. Timmermans, P. Koopman, P.J.R. Timmermans (Hasselt, BE)
- Implantation of the left ventricular epicardial lead complicated by stenosis of the left internal thoracic artery graft over 7 years** P1907  
N. Nishiyama, C. Komiyama, Y. Isonaga, H. Fujiwara, M. Morise, T. Yamada, A. Haima, Y. Tomita, Y. Fujimoto, T. Kodama (Tokyo, JP)
- A 39-year-old childbearing potential woman in lactation period suffering from STEMI.** P1908  
I.A. Mezhiievskaya, V.I. Maslovskiy, I.I. Leta, Y.V. Maslovskiy (Vinnitsa, UA)
- Interventricular septal rupture treated by percutaneous device closure** P1909  
E.-L. Antohi, R.I. Radu, O.D. Geavlete, I. Marinica, D. Deleanu, L. Predescu, C. Macarie, O. Chioncel (Bucharest, RO)



## Posters Sessions

- Impact of intracoronary injection of bone marrow on CMR derived myocardial strain 12 months after myocardial infarction** P1910  
 M. Gastl, J. Von Spiczak, A. Gotschy, D. Suerder, R. Corti, S. Kozerke, F. Ruschitzka, R. Manka (Zurich and Lugano, CH)
- Paget disease of the bone associated with severe acute reduced heart failure: a case report** P1911  
 E.J.J. Chuquiure, M. Balbuena-Madera, C. Garcia-Romero, C. Silva-Ruz, G. Raymundo-Martinez, E. Tapia-Lopez, O. Fiscal-Lopez (Mexico City, MX)
- Acute chagas cardiomyopathy in a 40-yo Mexican with very reduced LVEF: a case report** P1912  
 E.J.J. Chuquiure, D. Garcia-Romero, M. Balbuena-Madera, C. Silva-Ruz, G. Raymundo-Martinez, L. Medina-Paz, E. Tapia-Lopez, O. Fiscal-Lopez (Mexico City, MX)
- Hepatitis or heart attack? A rare presentation of acute heart failure** P1913  
 M. Ghosh, Z. Khaliq, A. Vazir (London, GB)
- Ventricular septal defect after acute myocardial infarction-a clinical case** P1914  
 A. Briosa, S. Alegria, D. Sebaiti, A.R. Pereira, A. Marques, A.C. Gomes, R. Miranda, H. Pereira (Lisbon, PT)
- Acute pulmonary edema due to influenza A (H1N1) co-infected with aspergillosis** P1915  
 W. Yu (Tainan, TW)
- Acute myocardial injury due to Influenza co-infected with Klebsiella pneumoniae and Aspergillosis** P1916  
 Y.A. Ho, W. Yu (Tainan, TW)
- Striking reduction of a giant intracavitary thrombus in a 46-yo male with heart failure with very reduced ejection fraction due to myocarditis: a case report.** P1917  
 E.J.J. Chuquiure, M. Balbuena-Madera, D. Garcia-Romero, C. Silva-Ruz, E. Tapia-Lopez, O. Fiscal-Lopez (Mexico City, MX)
- A case of complicated acute aortic dissection** P1918  
 A. Arregui Lopez, A.E.M. Ane Elorriaga Madariaga, A.A.M. Abel Andres Morist, I.E.R. Irene Maria Elizondo Rua, I.B.M. Idoia Bravo Martinez, G.A.B. Gorka Aurrekoetxea Bajeneta, R.S.M. Jesus Roberto Saez Moreno (Bilbao and San Sebastian, ES)
- Polyserositis post influenza vaccination, presented as acute heart failure** P1919  
 I. Rosenfeld, T. Levins, I. Nordkin, S. Dabbah, M. Halabi (Safed, IL)
- Miscellaneous clinical manifestations of an intracardiac tumour** P1920  
 I. Cabac-Pogorevici, V. Revenco (Chisinau, MD)
- Infective endocarditis complicated with heart failure - when everything goes wrong** P1921  
 S. Nowak, W. Kula, G. Sobieszek, B. Olajossy, N. Jurzak-Mysliwy, J. Sadowski (Lublin and Krakow, PL)
- Broken heart syndrome: a challenging diagnosis** P1922  
 A.F. Cardoso, G. Dias, P. Von Hafe, B. Faria, M. Fernandes, F. Almeida, I. Machado, A. Lourenco (Guimaraes, PT)
- Tachycardiomyopathy and subclinical hyperthyroidism: when should antithyroid treatment be given? a case report** P1923  
 A.L. Rodriguez, D.P. Diaz, S.A. Prieto, A.F. Buitrago, Y. Cardenas (Bogota, CO)
- An unusual case of myocarditis** P1924  
 I. Andrikou, I. Leontsinis, E. Sfendouraki, C. Danelatos, D. Syrseloudis, I. Skiadas, I. Babatseva Vagena, A. Androulakis, D. Vassilopoulos, C. Avgeropoulou, I. Kallikazaros (Athens, GR)

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**Rapid Fire 7 - Improving our insights: biomarkers, imaging, scores**

Chairperson(s): L. Gargani (Pisa, IT)

- 08:30 **Multiple patterns of left ventricular diastolic function and its determinants in cardiac amyloidosis: an updated evaluation according to ASE/EACVI 2016 guidelines** 1925  
S. Oghina, W. Bougouin, M. Kharoubi, A. Galat, S. Guendouz, M. Bezard, F. Le Bras, J.F. Deux, E. Itti, V. Plante-Bordeneuve, A. Mokteffi, P. Fanen, E. Teiger, T. Damy, D. Bodez (Creteil and Massy, FR)
- 08:36 **High prevalence of cancer in patients with peripartum cardiomyopathy and potential pathophysiological connections** 1926  
T.J. Pfeffer, S. Schlothauer, S. Pietzsch, M. Schaufelberger, K. Sliwa, C. Falk, S. Haidari, M. Ricke-Hoch, E. Stelling, D. Berliner, V. Abou-Moulig, T. Koenig, J. Bauersachs, D. Hilfiker-Kleiner (Hannover, DE; Gothenburg, SE; Cape Town, ZA)
- 08:42 **After initial improvement, left ventricular ejection fraction remains stable in long-term survivors with dilated cardiomyopathy** 1927  
K. Broch, A. Knutsen, E.K. Sekne, K. Murbraech, A.K. Andreassen, S. Aakhus, L. Gullestad (Oslo and Trondheim, NO)
- 08:48 **Clinical utility of the IMPACT score for mortality prediction after heart transplantation: external validation study.** 1928  
C. Ortiz-Bautista, J. Muniz Garcia, F. Gonzalez-Vilchez, J. Segovia Cubero, M.G. Crespo-Leiro, R. Lopez-Viella, J. Gonzalez-Costello, E. Roig Minguel, J.M. Arizon Del Prado, J.M. Sobrino Marquez, I.P. Garrido Bravo, J.F. Delgado Jimenez (Madrid, A Coruña, Santander, Valencia, Barcelona, Cordoba, Sevilla and Murcia, ES)
- 08:54 **Genetic risk prediction of atrial fibrillation in a contemporary heart failure cohort** 1929  
M. Kloosterman, B.T. Santema, C. Roselli, A.L. Koekemoer, S.P.R. Romaine, C.P. Nelson, I.C. Van Gelder, C.S.P. Lam, P. Van Der Harst, I.E. Sama, D.J. Van Veldhuisen, A.A. Voors, N.J. Samani, M. Rienstra (Groningen, NL; Boston, US; Leicester, GB)
- 09:00 **Long-term left ventricular ejection fraction trajectory in diabetic patients: is there any difference?** 1930  
M. De Antonio, J. Lupon, G. Gavidia-Bovadilla, N. Alonso, M. Domingo, P. Moliner, E. Santiago-Vacas, E. Zamora, J. Santesmases, V. Diaz, B. Gonzalez, C. Diez-Quevedo, J. Nunez, M.I. Troya, A. Bayes-Genis (Badalona, Barcelona and Valencia, ES)
- 09:06 **Concentric versus eccentric remodeling in heart failure with reduced ejection fraction: clinical characteristics, pathophysiology and response to treatment** 1931  
J.F. Nauta, Y.M. Hummel, W. Ouwkerk, J. Tromp, X. Jin, C.S.P. Lam, P. Van Der Meer, S.D. Anker, M. Metra, K. Dickstein, C.C. Lang, J. Bax, D.J. Van Veldhuisen, J. Van Melle, A.A. Voors (Groningen and Leiden, NL; Singapore, SG; Berlin, DE; Brescia, IT; Bergen, NO; Dundee, GB)
- 09:12 **Risk of readmission and death in patients admitted with new-onset versus worsening heart failure: insights from a nationwide cohort** 1932  
J.H. Butt, E.L. Fosbol, C. Andersson, T.A. Gerdts, J.J.V. McMurray, M.C. Petrie, F. Gustafsson, C. Madelaire, S.L. Kristensen, G.H. Gislason, C. Torp-Pedersen, L. Kober, M. Schou (Copenhagen, Hellerup, Aalborg and Herlev, DK; Glasgow, GB)
- 09:18 **18F-Flutemetamol PET/MR imaging of cardiac amyloidosis** 1933  
M. Papatheanasiou, L. Kessler, C. Rischpler, K. Herrmann, A. Carpinteiro, T. Hagenacker, T. Rassaf, P. Luedike (Essen, DE)
- 09:24 **Risk of stroke in patients with chronic heart failure and sinus rhythm: clinical prediction model based on the Swedish heart failure (Swede-HF) registry** 1934  
A. Uijl, I. Vaartjes, F.W. Asselbergs, A.W. Hoes, U. Dahlstrom, G. Savarese, S. Koudstaal, L.H. Lund (Utrecht, NL; Linkoping and Stockholm, SE)

## Morning Sessions

08:30 - 10:00 **RAPID FIRE ABSTRACTS** **AGORA 2**

- 09:30 **High prevalence of progression of structural and functional abnormalities in a cohort at -risk for heart failure. Report from the STOP HF cohort.** 1935  
M. Ferre-Vallverdu, R.B. Pharithi, E.O.connell, M. Ledwidge, J. Gallagher, C. Watson, K. McDonald (Dublin, IE)
- 09:36 **Validation of the HFA-PEFF-score for the diagnosis of heart failure with preserved ejection fraction** 1936  
A. Barandiaran Aizpurua, S. Sanders-Van Wijk, H.P. Brunner-La Rocca, M. Henkens, S. Heymans, L. Beussink-Nelson, S.J. Shah, V.P.M. Van Empel (Maastricht, NL; Chicago, US)
- 09:42 **Predictive utility of high-sensitivity troponin-T for new-onset heart failure is higher in women than in men** 1937  
N. Suthahar, L.M.G. Meems, D.J. Van Veldhuisen, J.E. Walter, R.T. Gansevoort, P. Van Der Harst, J.E. Kootstra-Ros, C. Mueller, S.J.L. Bakker, R.A. De Boer (Groningen, NL; Basel, CH)
- 09:48 **Evaluation of creatinine based methods for estimating glomerular filtration rate in heart failure** 1938  
A. Jonsson, I. Viklund, A. Jonsson, F. Valham, E. Berghdal, K. Lindmark, H. Norberg (Umea, SE)
- 09:54 **Soluble suppression of tumorigenicity-2 in cardiac amyloidosis, hypertrophic and dilated cardiomyopathy** 1939  
V. Castiglione, N. Ghionzoli, A. Aimo, L. Teresi, C. Prontera, S. Masotti, C. Grigoratos, D. Genovesi, A. Barison, G. Todiere, G.D. Aquaro, C. Passino, M. Emdin, G. Vergaro (Pisa, IT)

08:30 - 10:00 **SPECIAL SESSION** **LAMBRAKIS**

### Parade of devices 2: attend and learn



Chairperson(s): P. Vardas (Athens, GR); S. Anker (Berlin, DE)

- 08:30 **Autonomic modulation.** 1940  
P. Ponikowski (Wroclaw, PL)
- 08:42 **Renal denervation.** 1941  
C. Tsioufis (Athens, GR)
- 08:55 **Phrenic nerve stimulation.** 1942  
W. Abraham (Columbus, US)
- 09:08 **Decongestive therapy.** 1943  
P. Rossignol (Vandoeuvre Les Nancy, FR)
- 09:21 **Mitral valve interventions.** 1944  
G. Dangas (New York, US)
- 09:34 **Tricuspid valve interventions.** 1945  
R.S. Von Bardeleben (Mainz, DE)
- 09:47 **Ventricular reshaping targeting the ventricle and the annulus.** 1946  
H. Sievert (Frankfurt, DE)

## Morning Sessions

08:30 - 10:00

SYMPOSIUM

IONIAN SEA

### Heart failure in cardiomyopathies: differences in diagnosis and management

Chairperson(s): A. Anastasakis (Athens, GR); F. Schoenrath (Berlin, DE)

08:30	Dilated cardiomyopathy: what's new? P. Seferovic (Belgrade, RS)	1947
08:48	Hypertrophic cardiomyopathy: clinical phenotypes. C. Tschoepe (Berlin, DE)	1948
09:06	Restrictive and infiltrative cardiomyopathy: amyloidosis and sarcoidosis. C. Rapezzi (Bologna, IT)	1949
09:24	Fabry disease. A. Keren (Tel Aviv, IL)	1950
09:42	Left ventricular non compaction. M. Noutsias (Halle (Saale), DE)	1951

08:30 - 10:00

SYMPOSIUM

SKALKOTAS

### Heart transplantation: everything you need to know

Chairperson(s): J. Parameshwar (Cambridge, GB); S. Adamopoulos (Athens, GR)

08:30	Up-to-date indications and proper timing. T. Ben Gal (Ramat Hasharon, IL)	1952
08:52	The immunosuppressive drugs. A. Zuckermann (Vienna, AT)	1953
09:15	A multidisciplinary approach to the long-term follow-up. R. Starling (Cleveland, US)	1954
09:37	Future perspectives in heart transplantation. J. Rogers (Durham, US)	1955

08:30 - 10:00

SYMPOSIUM

AEGEAN SEA

### Clinical approach to cardio-oncological patient

Chairperson(s): Y. Belenkov (Moscow, RU); C. Bucciarelli-Ducci (Bristol, GB)

08:30	Early detection of cardio-toxicity: the role of imaging. T. Lopez Fernandez (Madrid, ES)	1956
08:48	Early detection of cardio-toxicity: the role of biomarkers. D. Cardinale (Milan, IT)	1957
09:06	Prevention of cardiotoxicity. K. Keramida (Athens, GR)	1958
09:24	Medical Interventions. R. De Boer (Groningen, NL)	1959
09:42	How to start a cardio-oncology service. A. Lyon (London, GB)	1960

## Morning Sessions

10:00 - 11:00

CLINICAL CASE POSTERS

MODERATED POSTER AREA

### Clinical Case Corner 6 - From inflammation to infiltration

Chairperson(s): A. Keren (Tel Aviv, IL)

- |       |  |      |
|-------|--|------|
| 10:00 | Fulminant eosinophilic myocarditis: a rare initial presentation of churg-strauss syndrome<br>P. Lopes, B. Rocha, G. Cunha, S. Ranchordas, C. Albuquerque, A. Ferreira, J. Ferreira, C. Aguiar, M. Trabulo, S. Ramos, J.P. Neves, M. Mendes (Carnaxide, PT) | 1961 |
| 10:06 | Acute ischemic stroke as the sole manifestation of reversible cardiac dysfunction in a patient with systemic lupus erithematous<br>A.M. Chitroceanu, R.A. Radu, N. Patrascu, A.I. Nicula, D. Vinereanu (Bucharest, RO)                                     | 1962 |
| 10:12 | Influenza b-induced refractory cardiogenic shock, treated with temporary ecmo support<br>A.H. Yamac (Istanbul, TR)   | 1963 |
| 10:18 | Myocarditis in Antisynthetase Syndrome: an infrequent association<br>C. Goena, L. Quintas, C. Gonzalez De Echevarri, I. Lluís, R. Garcia, J.M. Goiri, I. Royo, G. Ruiz Irastorza (Mendaro, Barakaldo and Donostia, ES)                                     | 1964 |
| 10:24 | Acute heart failure in young male with body dysmorphic disorder: heroin induced myocarditis.<br>V.E. Vallejo Garcia, G. Barreira De Sousa, S. Merchan Gomez, I. Toranzo Nieto (Salamanca, ES)  | 1965 |
| 10:30 | Intra-cardiac aspergilloma in a normally structured heart: a case report<br>S. Salari (Shiraz, IR)   | 1966 |
| 10:36 | Exudative-constrictive pericarditis in association with arthritis: toracoscopic biopsy as the only way to diagnosis and treatment<br>O.V. Blagova, I.N. Alijeva, A.V. Nedostup, P.V. Sencichin, E.A. Kogan, V.D. Parshin (Moscow, RU)                      | 1967 |
| 10:42 | A mutant Thr95Ile ATTR cardiac amyloidosis with polyneuropathy<br>K. Chun, J. Oh, K. Kim, S.M. Kang (Seoul, KR)  | 1968 |
| 10:48 | Direct confirmation of suspected hereditary ATTR by genetic sequencing<br>A. Nossikoff, N. Koleva, G. Lazarova, B. Slavchev, T. Donova (Sofia, BG)   | 1969 |
| 10:54 | Rapidly progressive heart failure symptoms in a patient with amyloid cardiomyopathy caused by rare Glu89Lys TTR mutation<br>M. Gawor, M. Franaszczyk, P. Michalek, M. Marczak, J. Wnuk, J. Grzybowski (Warsaw, PL)   | 1970 |

10:00 - 11:00

MODERATED POSTERS

MODERATED POSTER AREA

### Moderated Poster Session: Everlasting questions, new answers

Chairperson(s): S. Di Somma (Roma, IT); B.A. Popescu (Bucharest, RO); M Subramanian (Chennai, IN)

- |       |  |      |
|-------|--|------|
| 10:00 | Determinants of right ventricular dyssynchrony in patients with heart failure: combined gated blood-pool SPECT and invasive hemodynamic study<br>L. Monzo, M. Tupy, K. Chytra, N. Solar, J. Ters, L. Mlateckova, J. Kautzner, K. Sedlacek, V. Melenovsky (Rome, IT; Prague, CZ)                              | 1971 |
| 10:06 | Early stages of heart failure in obese patients are associated with natriuretic peptide deficiency and lack of overall neurohormonal activation<br>F.S. Gaborit, C. Kistorp, T. Kumler, C. Hassager, N. Toender, K. Iversen, P. Kamstrup, J. Faber, L. Kober, M. Schou (Herlev, Copenhagen and Hillerod, DK) | 1972 |
| 10:12 | Frailty evaluation in patients with chronic heart failure - A comparison of screening vs assessment tools<br>S. Sze, P. Pellicori, J. Zhang, J. Weston, A.L. Clark (Leicester, Glasgow, Cambridge and Hull, GB)  | 1973 |
| 10:18 | Evaluation of malnutrition using 6 screening tools in patients with chronic heart failure.<br>S. Sze, P. Pellicori, J. Zhang, J. Weston, A.L. Clark (Leicester, Glasgow, Cambridge and Hull, GB)   | 1974 |



## Morning Sessions

10:00 - 11:00	MODERATED POSTERS	MODERATED POSTER AREA
10:24	<b>Sex-based differences in heart failure across the ejection fraction spectrum: phenotyping, prognostic and therapeutic implications</b> D. Stolfo, A. Uijl, O. Vedin, A. Stromberg, U.L. Faxen, G. Rosano, G. Sinagra, U. Dahlstrom, G. Savarese (Stockholm, Uppsala and Linkoping, SE; Rome and Trieste, IT)	1975
10:30	<b>Right ventricular to pulmonary artery coupling and risk of recurrent admissions in heart failure with preserved ejection fraction</b> E. Santas, P. Palau, M. Guazzi, R. De La Espriella, M. Amiguet, M. Soler, J. Gonzalez, A. Mollar, F.J. Chorro, J. Nunez (Valencia and Castellon, ES; Milan, IT)	1976
10:36	<b>Myocardial perfusion mapping in cardiac amyloidosis- Unearthing the spectrum from infiltration to ischaemia</b> L. Chacko, T. Kotecha, A. Martinez, J. Brown, C. Little, D. Knight, A. Steriotis, P. Hawkins, J. Gillmore, R. Rakhit, T. Lockie, N. Patel, H. Xue, P. Kellman, M. Fontana (London, GB; Bethesda, US)	1977
10:42	<b>Relationship between diastolic dysfunction and cognitive impairment in patients with CAD and HFpEF</b> O. Nudchenko, I. Vivsyanik, L. Yakovenko, C. Faradzh, M. Dolzhenko (Kiev, UA)	1978
10:48	<b>Outcome of subsequent pregnancies in women with a history of peripartum cardiomyopathy at contemporary.</b> S. Goland, L. Zilberman, I. Fugenfirov, E. Vaisbuh, J. George (Rehovot, IL)	1979
10:54	<b>Cardiac arrhythmias at baseline predict a clinically relevant genetic yield in idiopathic non-familial DCM affecting long-term outcome</b> J.A. J. Verdonschot, M.T.H.M. Henkens, A.G. Raafs, P. Wang, J.J. Merken, G.R.F. Claes, E.K. Vanhoutte, A. Wijngaard Van Den, I.P.C. Krapels, H.G. Brunner, M.R. Hazebroek, S.R.B. Heymans (Maastricht, NL)	1980

10:00 - 11:00	HOW-TO SESSION	VIRTUAL CASE AREA
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### Virtual case 6 - Heart transplantation in a HIV-positive patient

Chairperson(s): Chairperson(s): M. Drozd (Wroclaw, PL); L. Sebbag (Lyon, FR)

*A 55-year old man with HIV infection, a three vessel coronary , impaired left ventricular ejection fraction and severe functional mitral regurgitation was admitted to hospital. Despite an optimisation of pharmacotherapy, cardioverter-defibrillator and mitraclip implantation, the patient remained severely symptomatic.*

11:00 - 12:30	SPECIAL SESSION	LAMBRAKIS
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### Heart Failure 2019 Highlights

Chairperson(s): G. Filippatos (Athens, GR); A. Coats (Coventry, GB); G.M.C. Rosano (London, GB)



11:00	<b>Basic and translational science.</b> T. Thum (Hannover, DE)	1981
11:15	<b>Biomarkers and imaging.</b> C.E. Mueller (Basel, CH)	1982
11:30	<b>Chronic heart failure.</b> A. Lyon (London, GB)	1983
11:45	<b>Nursing and telemedicine.</b> L. Hill (Co.Antrim, GB)	1984
12:00	<b>Acute heart failure.</b> O. Chioncel (Bucuresti, RO)	1985
12:15	<b>Devices and interventions.</b> F. Ruschitzka (Zurich,CH)	1986

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## Posters Sessions

08:30 - 12:30

POSTER SESSION 4

POSTER AREA

### THERAPY

- Noninvasive diagnostic technique in ventricular tachyarrhythmias assessment in patients with coronary artery disease and secondary prevention indications for ICD implantation** P1987  
T. Atabekov, R. Batalov, S. Krivolapov, M. Khlynin, S. Sazonova, A. Levintas, A. Mishkina, K. Zavadovsky, Y. Lishmanov, S. Popov (Tomsk, RU)
- Effect of cardiac resynchronization therapy on right ventricle in adult with congenital heart disease** P1988  
Y. Yin, K. Dimopoulos, E. Shamada, K. Lascelles, G. Samuel, T. Wong, M.A. Gatzoulis, S.V. Babu-Narayan, W. Li (London, GB)
- ECG predictors of outcome in non-left bundle branch block cardiac resynchronization therapy patients** P1989  
A.M. W. Van Stipdonk, M. Dural, F.C.W.M. Salden, I.A. H. Ter Horst, H.J. G. Crijns, F.W. Prinzen, M. Meine, A.H. Maass, K. Vernooij (Maastricht, Utrecht and Groningen, NL; Eskisehir, TR)
- Definition of myocardial electrical dissynchrony by noninvasive activation mapping in predicting response to cardiac resynchronization therapy** P1990  
S. Kashtanova, M. Utsumueva, N. Mironova, E. Gupalo, S. Gaman, M. Saidova, S. Golitsyn (Moscow, RU)

### CHRONIC HEART FAILURE - PATHOPHYSIOLOGY AND MECHANISMS

- Exercise unmasks greater arterial stiffness and arterial load in HFpEF patients vs hypertensive controls** P1991  
L. Panah, E. Zern, J.E. Ho, E.S. Lau, E. Liu, T. Cunningham, K.M. Hardin, M. Namasivayam, R. Malhotra, M. Nayor, G.D. Lewis (Boston and Los Angeles, US)
- Latent class analysis of echocardiographic phenotypes predicts adverse outcomes and treatment response in heart failure with preserved ejection fraction** P1992  
S. Purohit, P.S. Jhand, J. Lindenfeld, D.P. Kao (Aurora and Nashville, US; Glasgow, GB)
- The usefulness of handgrip exercise echocardiographic tests for diagnosis of heart failure with preserved ejection fraction compared to invasive bicycle exercise cath** P1993  
K.H. Kim, M.G. Kang, H.W. Park, J.R. Park, S.J. Hwang, J.Y. Hwang (Jinju, KR)
- Characteristics of Worsening Ejection Fraction during Follow-up in Heart Failure Patients with Preserved Ejection Fraction** P1994  
H. Yaku, T. Kato, T. Morimoto, Y. Inuzuka, Y. Tamaki, E. Yamamoto, N. Ozasa, T. Kimura (Kyoto, Nishinomiya, Moriyama and Tenri, JP)
- Impact of the geriatric nutritional risk index in non-diabetic patients aged >80 years with heart failure with preserved ejection fraction** P1995  
Y. Mitsuke, H. Tsutani, N. Ohtsuki (Fukui, JP)
- Correlation of inflammatory and fibrosis markers with diffuse interstitial fibrosis by T1 myocardial mapping and echocardiography parameters in heart failure with preserved ejection fraction patients** P1996  
A.N. Kaburova, O.M. Drapkina, M.S. Pokrovskaya, M.V. Vishnyakova, S.M. Uydin, S.N. Koretsky, A.S. Abramenko, G.V. Chermensky, B.B. Shoybonov, A.A. Fedorovich, L.A. Matskevich, N.V. Gomiranova, E.V. Zyatzenkova, I.A. Efimova, V.V. Makarov (Moscow, RU)
- The effects of long-term treatment with sympathetic nervous system blockers on diastolic function in patients with resistant hypertension and heart failure with preserved ejection fraction** P1997  
A. Moiseeva, A. Caraus, N. Ciobanu, V. Moscalu, E. Sedaia, A. Surev, A. Durnea, A. Bitca, M. Caraus, L. Untura (Chisinau, MD; Iasi, RO)
- The relationship between pulse-wave parameters and myocardial fibrosis determined by T1 myocardial mapping in patients with heart failure and preserved ejection fraction** P1998  
A.N. Kaburova, O.M. Drapkina, M.S. Pokrovskaya, M.V. Vishnyakova, S.M. Uydin, S.N. Koretsky, A.S. Abramenko, G.V. Chermensky, B.B. Shoybonov, A.A. Fedorovich, L.A. Matskevich, N.V. Gomiranova, E.V. Zyatzenkova, I.A. Efimova, V.V. Makarov (Moscow, RU)

## Posters Sessions

- Central aortic pressure: the link with markers of inflammation and fibrosis and diastolic function parameters in patients with heart failure and preserved ejection fraction** P1999  
 A.N. Kaburova, O.M. Drapkina, M.S. Pokrovskaya, S.M. Uydin, S.N. Koretsky, B.B. Shoybonov, A.A. Fedorovich, L.A. Matskevich, N.V. Gomiranova, E.V. Zyatenkova, I.A. Efimova, V.V. Makarov (Moscow, RU)
- Red blood cell distribution width predicts 5-years all cause mortality in patients with preserved ejection fraction heart failure** P2000  
 R.N. Siliiste, R. Ciomag, C. Homentcovschi, A. Trandafir, D. Pasoiu, B. Herteg, O. Mincan, I. Savulescu-Fiedler, A. Gurgehan, D.V. Spataru (Bucharest, RO)
- Prognostic value of post-exercise oxygen uptake kinetics in heart failure with preserved ejection fraction** P2001  
 I.Y.U. Giverts, M.G. Poltavskaya, E.E. Yakubovskaya, M.V. Serova, D.A. Andreev, V.P. Sedov, M.D. Kuklina, D.Y.U. Shchekochikhin, A.L. Syrkin (Moscow, RU)
- Arterial stiffness and the autonomic nervous system function with different phenotypes of heart failure with preserved ejection fraction** P2002  
 N. Kurlykina, A. Plisuk, R. Binyakovskiy, K. Galinger, I. Orlova (Moscow, RU)
- Galectin-3, AGEs serum levels and endothelial function in post infarction heart failure patients with preserved ejection fraction** P2003  
 O. Sirenko, O. Kuryata, A. Zabida (Dnipropetrovsk, UA)
- Dynamics of sST2 and NTproBNP in heart failure with a preserved ejection fraction in acute myocardial infarction** P2004  
 F.D. Akhmatova, V.N. Larina, M.V. Khoreva, I.M. Doronina (Moscow, RU)
- The impact of a clinical educational and self-care intervention in patients with heart failure with preserved ejection fraction** P2005  
 H. Bolam, P.R. Kalra, K. Guha, G.D.J. Morton (Portsmouth, GB)
- The sophisticated echo parameters in diabetic and non-diabetic patients with preserved ejection fraction after STEMI** P2006  
 G. Krijanac, D. Trifunovic, M. Asanin, I. Mrdovic, M. Djurovic, G. Stankovic, L. Savic, M. Polovina, V. Sulovic, L. Cucic, J. Dudic (Belgrade, RS)
- A novel echocardiographic based diagnostic score for identifying heart failure with preserved ejection fraction** P2007  
 J. Tromp, W. Ouwerkerk, Y. Hummel, P.S.D. Yeo, D. Sim, F. Jaufeerally, H.Y. Ong, D.J. Van Veldhuisen, A.M. Richards, L.H. Ling, E. Hoendermis, J.K. Oh, A.A. Voors, J.J.V. McMurray, C.S.P. Lam (Singapore, SG; Amsterdam and Groningen, NL; Rochester, US; Glasgow, GB)
- Influence of cardioversion on left atrial volume and function in patients with heart failure and preserved ejection fraction and atrial fibrillation** P2008  
 M.D.W. Von Roeder, S. Blazek, K.P. Rommel, G. Goia, C. Besler, K. Fengler, J.A. Lurz, G. Hindricks, H. Thiele, P. Lurz (Leipzig, DE)
- Association of endothelial NO-synthase gene polymorphism with the left ventricle diastolic dysfunction and pulmonary hypertension in patients with heart failure and preserved ejection fraction** P2009  
 K.I. Cherniaieva, K.M. Amosova, Y.V. Rudenko, G.V. Mostbauer, A.B. Bezrodny, O.I. Nishkumay, P.O. Lazarev, O.I. Rokyta, N.V. Bereza, N.V. Shyshkina, K.P. Lazareva, O.V. Vasylenko, Y.A. Kovtun, D.S. Sichinava, Z.V. Lysak (Kiev, UA)
- Regional differences in characteristics and correlates of coronary microvascular dysfunction in HFpEF** P2010  
 C. Hage, S. Svedlund, A. Saraste, U. Ljung Faxen, M. Erhardsson, M. Lagerstrom Fermer, L.M. Gan, S.J. Shah, C.S.P. Lam, L.H. Lund (Stockholm and Gothenburg, SE; Turku, FI; Chicago, US; Singapore, SG)

## Posters Sessions

### CHRONIC HEART FAILURE - EPIDEMIOLOGY, PROGNOSIS, OUTCOME

- Heart rate and rhythm in relation to quality of life in outpatients with heart failure** P2011  
M. Grundtvig, M. Laegran, T. Volnes-Eriksen (Trondheim, NO)
- Heart failure in Colombia: results from the RECOLFACA registry** P2012  
C.I. Saldarriaga, J.E. Gomez, L.E. Echeverria (Medellin, Cali and Bucaramanga, CO)
- Pulmonary arterial hypertension treatment in latin america** P2013  
S.G.C. Stephania Galindo Coral, J.E.G. Juan Esteban Gomez Mesa (Cali, CO)
- Prevalence of cardiac and non cardiac comorbidities in heart failure outpatients with preserved, mid ranged, and reduced ejection fraction: a single tertiary university center experience** P2014  
G. Giamouzis, A. Xanthopoulos, N.A. Chroub-Papavaïou, G. Karagiannis, A. Pantziou, A. Douras, A. Simou, J. Skoularigis, F. Triposkiadis (Larissa and Volos, GR; Cleveland, US; London, GB)
- Patients with CHF at low risk after acute decompensation do not need for careful observation and intensive treatment** P2015  
O. Narusov, A. Skvortsov, M. Muksinova, D. Protasova, V. Protasov, T. Sharf, V. Masenko, S. Tereshchenko (Moscow, RU)
- Determinants and prognostic impact of intra-hospital worsening of renal function in acute heart failure** P2016  
A. Klein, S. Muensterer, M. Hanke, R. Ludwig, M. Breunig, C. Morbach, V. Cejka, M. Christa, N. Scholz, M. Ertl, M. Kaspar, G. Ertl, S. Frantz, C.E. Angermann, S. Stoerk (Wurzburg, DE)
- Heart failure in very elderly patients (90 years of age and older)** P2017  
L. Demirevska, M. Nedkova, A. Chobanov, I. Daskalov, T. Valova, M. Amiorkov (Sofia, BG)
- Right ventricular dysfunction in heart failure with preserved ejection fraction: an impact on survival** P2018  
B. Mahne, S. Kariz, R. Stopar, T. Ravnikar, A. Kupresan, N. Cernic Suligoj (Izola, SI)
- Comparison of baseline characteristics and outcomes in women versus men referred for advanced heart failure therapies** P2019  
J.K. Vishram-Nielsen, T. Deis, K. Rossing, E. Wolsk, A.C. Alba, H.J. Ross, F. Gustafsson (Copenhagen, DK; Toronto, CA)
- The prognosis of patients with chronic heart failure, depending on adherence to observation in a specialized heart failure treatment center** P2020  
N.G. Vinogradova, I.V. Fomin, D.S. Polyakov (Nizhny Novgorod, RU)
- The importance of changes in prognostic markers during the management of HFrEF : reassessment better predicts the outcomes than the initial evaluation.** P2021  
M. Faure, F. Picard, P. Dos Santos (Bordeaux-Pessac, FR)
- Follow-up of patients with heart failure and right ventricular dysfunction: clinical profile and prognosis.** P2022  
C.N. Perez Garcia, D. Enriquez Vazquez, T. Luque Diaz, A. Travieso Gonzalez, M. Ferrandez Escarabajal, C. Olmos, D. Vivas Balcones, I. Vilacosta (Madrid, ES)
- Risks of death from decompensation and cardiovascular causes in patients with chronic heart failure, depending on adherence to observation in a specialized center.** P2023  
N.G. Vinogradova, I.V. Fomin, D.S. Polyakov (Nizhny Novgorod, RU)
- Comorbidity burden can discriminate chronic heart failure with preserved and reduced but not with mid-range ejection fraction** P2024  
G. Giamouzis, A. Xanthopoulos, N.A. Chroub-Papavaïou, G. Karagiannis, A. Pantziou, A. Douras, A. Simou, J. Skoularigis, F. Triposkiadis (Larissa and Volos, GR; Cleveland, US; London, GB)
- Recovered ejection fraction in alcoholic cardiomyopathy: is alcohol abstinence the only predictive factor?** P2025  
I. Pereira Oliveira, A. Leal Neto, D. Seabra, A. Andrade, J. Azevedo, P. Pinto (Penafiel, PT)
- Prevalence of palliative care needs in patients with heart failure** P2026  
C.I. Saldarriaga, L.F. Arenas Ochoa, L. Montoya Trejos, M.C. Zapata, A.M. Restrepo Siegert, F. Toro, A.M. Agudelo, J.S. Diaz Betancur, N. Gonzalez Jaramillo, J.J. Vargas Gomez, M.A. Lemos, A. Krikorian (Medellin and medellin, CO)

## Posters Sessions

- Short-term mortality in final stage heart failure patients.** P2027  
 M.A. Munoz, J.M. Verdu, E. Calero, J.L. Del Val, R. Abellana, M. Casademunt, J. Duran, E. Casajuana, S. Alonso, P. Furio, N. Torralba (Barcelona, ES)
- Gender-related differences in chronic heart failure: is there anything else to learn?** P2028  
 G. Russo, F. Rea, G. Barbatì, K. Stellato, A. Cherubini, A. Scagnetto, A. Iorio, G. Corrao, A. Di Lenarda (Trieste, Milan and Bergamo, IT)
- Do elderly patients with chronic heart failure have special clinical profile? Data from Russian National Heart Failure Registry 2012.** P2029  
 E.M. Seredenina, I.A. Orlova, E.N. Borisov, V.Y.U. Mareev (Moscow, RU)

### CHRONIC HEART FAILURE - TREATMENT

- Real life heart failure, a heterogeneous population benefiting from a specialized multidisciplinary programme** P2030  
 I. Egídio Sousa, I. Lopes Da Costa, I. Nabais, F. Pulido Adragao, P. Moniz, S. Quintao, L. Fernandes, C. Osana, L. Campos, I. Araujo, C. Fonseca (Lisbon and Portimão, PT)
- New approaches in personalized diagnose of patients with symptomatic obstructive hypertrophic cardiomyopathy optimize the type of treatment decision-making.** P2031  
 Y.F. Frolova (Moscow, RU)
- What factors influence treatment and management received by heart failure patients?** P2032  
 J. Masters, C.R. May, A. Richardson (Southampton and London, GB)
- Reassuring community heart failure care in the absence of specialist involvement; but some gaps indicate need for continued specialist team input** P2033  
 R.B. Pharithi, M. Ferre-Vallverdu, C. Walsh, L. Fennell, J. Gallagher, R. Fawsitt, M. Ledwidge, K. McDonald (Dublin, IE)
- Factors influencing guideline-led prescribing to heart failure patients in an Egyptian critical care setting** P2034  
 S. El Hadidi, N. Bazan, E. Darwesh, S. Byrne, M. Bermingham (Cork, IE; Cairo, EG)
- Meta-analysis on MitraClip implantation for functional mitral regurgitation** P2035  
 M. Noutsias, M. Matiakis, M. Ali, E. Abate, H. Melnyk, B. Bigalke, A.G. Rigopoulos (Halle and Berlin, DE)
- First-in-human VisONE heart failure study implant experience and study design: asymptomatic diaphragmatic stimulation for chronic heart failure** P2036  
 M. Zuber, R. Young, A. Mcmonnachie, T. Shaburishvili, K. Rudenko, V. Demyanchuk, A. Jorbenadze, R. Buriak, B. Todurov, M. Mirro, N. Nikitin, P. Erne, J. Cleland (Zurich and Lugano, CH; Glasgow and Douglas, GB; Tbilisi, GE; Kiev, UA; Fort Wayne, US)
- Heart failure patient's journey: clinical practices and attitudes regarding the diagnosis and management of heart failure** P2037  
 M. Boehm, I. Kindermann (Homburg, Saar, DE)
- Service quality in a heart failure clinic: a comparison analysis to a general cardiology clinic** P2038  
 L.C. Danzmann, C.P. Moreira, A.S. Menin, L.S. Mansur, R.E. Heinze, L.G. Marin, E. Bartholomay, J.W. Walter, V. Predebon, L.C. Petersen, L.G. Souza (Porto Alegre and Caxias do Sul, BR)
- Long-term clinical and echocardiographic outcome in patients with CRT and functional mitral regurgitation: mitraclip versus optimal medical therapy** P2039  
 A. Cirasa, A. Popolo Rubbio, P. Zappulla, A. Di Grazia, C. Grasso, D. Capodanno, V. Calvi (Catania, IT)
- Consultant-led multidisciplinary community heart failure service improves the delivery of guideline directed medical therapy and reduces hospital admissions, re-admissions and length of stay.** P2040  
 T. Nazir, M. Naffati (Manchester and Liverpool, GB)
- Self-care management intervention in heart failure** P2041  
 S.G. Sofia Gerward, D.S. Daniel Sahlin (Lund, SE)
- OPTIMIZE Heart Failure Care Program in Mexico. Impact on early and mid term Heart Failure readmissions** P2042  
 J.A. Magana-Serrano, J.A. Cigarroa-Lopez, R. Cantero-Colin, G. Maza-Juarez, H. Galvan-Oseguera, L.E. Santos-Martinez, M.A. Alcocer-Gamba (mexico city and Queretaro, MX)

## Posters Sessions

- Overcoming challenges in adopting guideline-based device therapy in patients with heart failure; a real-world experience** P2043  
 A. Malaweera, V. Kanthasamy, H. Church, R.A. Veasey, A.J. Marshall, J. Hunt, N.R. Patel (Eastbourne, GB)
- Clinical outcomes after renal replacement therapy in heart failure patients with cardiorenal syndrome and refractory congestion: a comparison between peritoneal dialysis and hemodialysis** P2044  
 F.H. Valicelli, S.C. Hermann, M.F.L.M. Castro, F. Marques, L.B.B. Silva, G.P. Mizziara, J.A.C. Costa, A. Schmidt, M.V. Simoes (Ribeirao Preto, BR)
- Establishing the first pharmacist-led heart failure medication optimization clinic in the middle east gulf region** P2045  
 B. Atallah, Z.G. Sadik, I. Hamour, H. Ghalib, S. Al Fardan, A. Cherfan, F. Bader (Abnu Dhabi and Abu Dhabi, AE; Dublin, IE)
- Introduction of a multidisciplinary specialist heart failure team prevented 2 in 3 heart failure readmissions** P2046  
 S. Hadjiphilippou, G. Cole, C. Plymen (London, GB)
- Current status of palliative care for heart failure; from the clinical experience of a general hospital in Japan** P2047  
 Y. Nishihata, N. Komiyama (Tokyo, JP)
- An evaluation of heart failure register reviews and virtual clinics 2016-2018** P2048  
 C.L. Thomson, G.L. Campbell (London, GB)
- Non-invasive Venous Waveform Analysis (NIVA) estimates static volume** P2049  
 M. Polcz, P. Liesy, J. Lindenfeld, K. Hocking, C. Brophy, B. Alvis (Nashville, US)
- Vaccination uptake in HF patients; identifying a critical gap of care** P2050  
 F. Rathore, R.B. Pharithi, K. McDonald (Dublin, IE)
- Impact of Quality Improvement Strategies on the performance of Specialised Heart Failure Nurses regarding patient management** P2051  
 S. Moteea, C. Coyle, S. Grimsdale, V. Brady, K. Ress, S. Bulugahapitiya (Bradford, GB)
- Impact of a clinical pharmacy service on heart failure guideline-led prescribing at discharge in an Egyptian critical care unit** P2052  
 S. El Hadidi, N. Bazan, E. Darwesh, S. Byrne, M. Bermingham (Cork, IE; Cairo, EG)
- Multidisciplinary care for end-stage HF. How to improve care?** P2053  
 P. Fluvia, S. Mirabet Perez, A. Pascual Lopez, M.J. Pirla, N. Mesado Batalla, I. Lumillo Gutierrez, E. Roig Minguell (Girona and Barcelona, ES)

### CHRONIC HEART FAILURE - CLINICAL

- Chronic heart failure in patients with systemic amyloidosis** P2054  
 E. Reznik, T.L. Nguyen, E.A. Stepanova, A.V. Salikov, I.G. Nikitin (Moscow, RU)
- Benefit of buspirone on chemoreflex and central apnea in heart failure** P2055  
 A. Giannoni, C. Borrelli, G. Mirizzi, G.B. Richerson, M. Emdin, C. Passino (Pisa, IT; Iowa City, US)
- Efficacy and safety of carvedilol and losartan with various combinations of bronchodilators in patients with chronic heart failure due to coronary artery disease combined with COPD** P2056  
 V. Evdokimov, A. Evdokimova, E. Kovalenko, E. Yushchuk (Moscow, RU)
- Defining iron deficiency in acute heart failure: preliminary results** P2057  
 G. Cunha, B. Rocha, R. Ventura Gomes, J. Duarte, L. Campos, L. Menezes Falcao, I. Araujo, C. Fonseca (Lisbon, Vila Franca de Xira and Amadora, PT)
- Iron status and skeletal muscle fatigability in men with heart failure with reduced ejection fraction** P2058  
 M. Tkaczyszyn, M. Drozd, K. Wegrzynowska-Teodorczyk, J. Tobiszewski, J. Bojarczuk, W. Banasiak, P. Ponikowski, E.A. Jankowska (Wroclaw, PL)
- Empagliflozin: effects on the heart and vessels** P2059  
 B. Moura, E. Moreira, L. Coelho, P. Dias (Porto, PT)
- Evaluation of kidney function impairment in patients with chronic heart failure and preserved ejection fraction depending on cardiac rhythm** P2060  
 N. Koziolova, S. Mironova, E. Polyanskaya (Perm, RU)



## Posters Sessions

- Endothelial dysfunction in chronic obstructive pulmonary disease patients according to exposure by tobacco or biomass** P2061  
 R. Davila-Ramos, D.G. Gonzalez- Islas, A. Orea- Tejeda, Y. Pilotzi- Montiel, F. Salgado- Fernandez, A. Jimenez- Valentin, A. Flores- Vargas, R. Hernandez- Zenteno, R. Sanchez- Santillana, R. Martinez- Memije, O. Infante- Vazquez, D. Alonso- Martinez, N. Garcia- Galvez, V. Fernandez-Badillo (Mexico city, MX)
- Opioid administration for patients with end stage heart failure in Japanese real world** P2062  
 Y. Taniguchi, S. Oishi, T. Onishi, T. Takaya, T. Miyata, K. Yokoi, M. Ito, Y. Tsukishiro, T. Inoue, Y. Sawada, A. Shimane, K. Imamura, Y. Yasaka, H. Kawai (Himeji, JP)
- Relation between cognitive impairment and blood pressure before psychological stress in right heart failure patients** P2063  
 L. Pachicano-Romero, V. Pelaez-Hernandez, A. Orea-Tejeda, G.L. Luna-Rodriguez, C. Pineda-Sanchez, L.A. Martinez-Bautista, K.L. Rosales-Castillo, C.R. Zepeda-Dominguez, L. Garcia-Flores, A.A. Ibarra-Fernandez, A. Flores-Vargas, L. Hernandez-Urquieta, A. Jimenez-Valentin, R. Davila-Ramos, M.F. Salgado-Fernandez (Mexico City, MX)
- Impact of obesity on volume status in chronic heart failure** P2064  
 W.L. Miller, B. Borlaug (Rochester, US)
- The new clinical tool of severity assessment in elderly patients with heart failure** P2065  
 V.N. Larina, M.I. Zacharova, V.I. Lunev, M.P. Mikhailusova (Moscow, RU)
- One stop heart failure clinic- a real world experience** P2066  
 C. Mccune, H. Hiles, A. Santos, L. Dixon (Belfast, GB)
- Association between obesity parameters and the risk of left ventricular dysfunction in type 2 diabetic patients** P2067  
 S.M. Mitrovska, S.J. Jovanova, M.S. Suslevska (Skopje, MK)
- Clinical and echocardiographic features in diabetic and non-diabetic patients with chronic heart failure** P2068  
 V. Berisha-Muharremi, E. Haliti, S. Elezi, I. Bytyci, A. Poniku, A. Ahmeti, A. Batalli, P. Ibrahimii, R. Tafarshiku, Z. Rexhaj, G. Bajraktari (Pristina, XK)
- Risk factors of heart failure among patients with hypertension** P2069  
 A.S. Oguntade, I.O. Ajayi (Ibadan, NG)
- Pulmonary hypertension and left atrial enlargement are associated with blunting of reduction in hospital resource utilization in patients enrolled in specialty heart failure clinic** P2070  
 X. Cai, S. Jia, S.J. Smith, S. De, R. Mckelvie, R.A. Davey (London, CA)
- Longitudinal changes in serum creatinine in patients with heart failure receiving oral anticoagulation for atrial fibrillation** P2071  
 S. Giovinozzo, M. Toma, G. Ghigliotti, F. Chiarella, C. Brunelli, I. Porto, M. Canepa, P. Ameri (Genova, IT)
- Differences between physical and psychological stress in right heart failure patients** P2072  
 L. Pachicano-Romero, V. Pelaez-Hernandez, A. Orea-Tejeda, C. Pineda-Sanchez, G.L. Luna-Rodriguez, A. Martinez-Bautista, C.R. Zepeda-Dominguez, L. Garcia-Flores, R. Davila-Ramos, A.A. Ibarra-Fernandez, R.N. Sanchez -Santillan, K. Balderas-Munoz, M.F. Salgado-Fernandez, Y.A. Pilotzi-Montiel, A. Flores-Vargas (Mexico City, MX)
- Sarcopenia and cardiac dysfunction in community-living older adults** P2073  
 E. Fung, X. Yang, Q. Li, K.F. Cheng, S. Liu, F. Yau, D. Sahota, Y. Fan, A.P. W. Lee, L.T. Lui, J. Woo (Hong Kong, HK)
- Sarcopenia and reduced physical fitness are associated with cardiac dysfunction in community-living older adults** P2074  
 X. Yang, L.T. Lui, Q. Li, K.F. Cheng, S. Liu, F. Yau, Y. Fan, A.P. W. Lee, J. Woo, E. Fung (Hong Kong, HK)
- The association of reduced cardiac systolic function with morphological vascular abnormality rather than functional vascular abnormality in coronary artery disease** P2075  
 H.T. Tomiyama, T.C. Chikamori, A.Y. Yamashina (Tokyo, JP)
- Clinical determinants of Doppler derived intrarenal hemodynamics in patients with HFpEF** P2076  
 I. Cabac-Pogorevici, V. Revenco (Chisinau, MD)

## Posters Sessions

- Cerebral blood flow is lower in heart failure patients with reduced ejection fraction who have atrial fibrillation** P2077  
E. Babayigit, Y. Cavusoglu, M. Dural, K.U. Mert, T. Ulus, B. Gorenek (Eskisehir, TR)
- Osteoporosis in males with heart failure: impact on survival.** P2078  
G. Loncar, B. Bozic, S. Von Haehling, N. Cvetinovic, M. Lainscak, H.D. Dungen, T.G. Macedo, N. Ebner, M. Vatic, V. Popovic (Belgrade, RS; Gottingen, Berlin, Berlin and Gottingen, DE; Murska Sobota, SI)
- Metabolism evaluation and ketones utilization in the failing human heart** P2079  
L. Monzo, K. Sedlacek, P. Stavek, F. Barilla, L. Kryze, C. Gaudio, J. Kautzner, V. Melenovsky (Rome, IT; Prague, CZ)
- Cross talk between endothelial dysfunction and myocardial fibrosis in patients with heart failure: the role of galectin-3.** P2080  
E. Oikonomou, D. Karlis, S. Tsalamandris, G. Siasos, C. Chrysohoou, G. Vogiatzi, V.C. Mystakidi, G. Marinos, D. Tousoulis (Athens, GR)

### ACUTE HEART FAILURE

- Associations of serum extracellular matrix markers with liver stiffness and congestion in patients with decompensated heart failure** P2081  
M. Bayarsaikhan, A. Soloveva, O. Arisheva, I. Garmash, Z. Kobalava (Moscow, RU)
- Impact worsening renal function on acute decompensated heart failure, depending on ngal changes** P2082  
I. Gorda, A. Bezrodniy (Kiev, UA)
- Natriuretic peptides in prognosticating mortality in acutely ill patients: bad news peptide. Investigation beyond heart failure in a single centre tertiary referral centre.** P2083  
R.M. Durand, N.P. Connolly, S. Harrington, J. Kevans, C.O.sullivan, B. Mcadam (Dublin, IE)
- NT-proBNP as a prognostic marker development of acute kidney injury in patients with acute decompensated heart failure** P2084  
M.V. Menzorov, E.V. Efremova, A.M. Shutov, V.V. Kasalinskaya (Ulyanovsk, RU)
- Usefulness of in-hospital loop diuretic amount and diuretic response measurements in patients with acute decompensated heart failure** P2085  
G. Ruocco, I. Evangelista, R. Nuti, A. Palazzuoli (Siena, IT)
- Higher daily oral furosemide requirement is a predictor for short term mortality in heart failure patients** P2086  
C. Thimphithaya, P. Sriparn, M. Anuntasainont, P. Lalithnithi, S. Kittiprachakul, A. Trongtorsak, A. Ariyachaipanich (Bangkok, TH)
- Interest of Ivabradine in patients with cardiac failure treated with Dobutamine** P2087  
K. Chbini, A. Amil, D. Benzeroual (Marrakech, MA)
- The change in noninvasively measured left ventricular end diastolic pressure during outpatient intravenous diuresis is related to ejection fraction and initial filling pressure** P2088  
Z. Gowani, P. Patel, M. Yu, T. Simmons, P. Galiatsatos, N. Gilotra, R. Rouf, H. Silber (Baltimore, US)
- Patterns of access to medical care in acute myocardial infarction** P2089  
P.M. Araujo, A. Nunes, S. Torres, P. Diogo, C. Resende, M. Campelo, M.J. Maciel (Porto, PT)
- Acute heart failure has many faces- clinical characteristics, response to the treatment and long-term outcome in patients with different physical presentations of cardiac decompensation.** P2090  
J.M. Sokolska, M. Sokolski, R. Zymliński, J. Biegus, K. Swoboda, P. Siwolowski, S. Nawrocka-Millward, P. Gajewski, W. Banasiak, P. Ponikowski (Wroclaw, PL)
- Recognition of risk factors and symptoms of acute myocardial infarction** P2091  
P.M. Araujo, A. Nunes, S. Torres, C. Resende, P. Diogo, M. Campelo, M.J. Maciel (Porto, PT)
- When is heart failure not heart failure?** P2092  
G. Lee, A. Kirresh, R. Baruah (London, GB)
- Frequency and severity of geriatric syndromes in elderly patients with acute coronary syndrome in relation to left ventricular ejection fraction** P2093  
N. Soseliya, O. Lukina, A. Metelkin, A. Soloveva, S. Villevalde, Z. Kobalava (Moscow, RU)

## Posters Sessions

- Is dyspnoea a different sign in men and women with ACS?** P2094  
 M. Plaza Martin, S. Del Prado Diaz, M. Sanmartin Fernandez, G.L. Alonso Salinas, S. Hernandez Jimenez, J. Ramos Jimenez, H. Manjon Rubio, A. Pardo Sanz, A. Marco Del Castillo, J.M. Monteagudo Ruiz, M. Pascual Izco, M. Abellas Sequeiros, J.D. Sanchez Vega, J.L. Zamorano Gomez (Madrid, ES)
- Acute decompensated heart failure therapy enriched with angiotensin-neprilysin inhibitor, a single-center real life experience.** P2095  
 V. Grebneva, I. Kurcalte, Y. Safro, A. Kalnins, A. Lejniaks, O. Kalejs (Riga, LV)
- Evolution of level of evidence c recommendations in European Society of Cardiology clinical practice guidelines on heart failure** P2096  
 D. Candeias Faria, M. Trindade, M. Santos, J. Serodio, M. Beringuilho, F. Batista, J. Augusto (Amadora, PT; London, GB)
- Association between 1-year blood pressure level and 1-year heart failure events in hypertensive patients with acute myocardial infarction** P2097  
 M.S. Kim, J.W. Beom, J.H. Choi, S.Y. Kim, K.S. Kim, S.J. Joo, J.G. Lee, S.W. Rha, J.O. Jeong, S.C. Chae, D.J. Choi, Y.J. Kim, K.B. Kim, J.K. Chae, M.H. Jeong (Jeju, Seoul, Daejeon, Daegu, Seongnam, Jeonju and Gwangju, KR)
- Renal function changes in decongestion of patients with acute heart failure: independent predictor for mortality or just confounder?** P2098  
 S.Y. Jang, B.E. Park, Y.J. Park, M.H. Bae, J.H. Lee, D.H. Yang, H.S. Park, Y. Cho, S.C. Chae (Daegu, KR)
- Low T3, it is not the same. Part II.** P2100  
 S. Mettini, L. Secco, D.A. Fernandez, M.G. Masuelli, M. Taboada, C. Cejas, C. Biglia, S.M. Pereiro Gonzalez (Buenos Aires, AR)
- Determinants and consequences of new acute kidney injury in acutely decompensated heart failure: a retrospective analysis at a tertiary australian centre** P2101  
 R. Moriswala, C. Neil, C. Nelson, C. Zammit, E. Scholes, H. Altamimi, R. Falls (Melbourne, AU)
- Clinical characteristics of patients with acute heart failure with adverse reactions to anticoagulation. Clinical impact of time in therapeutic range with acenocoumarol** P2102  
 R. Martin-Sanchez, C. Chocron Benbunan, A. Calvo Elias, E. Dubon Peralta, L. Lopez Garcia, M. Rivas-Molinero, X. Rivas Regaira, R. Iguaran, E. Calvo Manuel, A. Nieto Sanchez, T. Lopez Caballero, R. Herranz Hernandez, C. Cano De Luque, I. Gonzalez Carrasco, M. Mendez-Bailon (Madrid, ES)
- The old and new echocardiographic predictors of acute heart failure in STEMI patients** P2103  
 G. Krljanac, D. Trifunovic, M. Asanin, L. Savic, G. Stankovic, J. Dudic, M. Polovina, V. Sulovic, L. Cucic, I. Mrdovic (Belgrade, RS)
- Acute cardiac failure and fatal arrhythmia in severe respiratory infections** P2104  
 J. Pervoushina, S. Lukyanov, V.V. Gorbunov, T. Aksenova, A. Burlakova, A. Utuzhnikov (Chita, RU)
- Malignant cardiac neoplasms are rare but lethal** P2105  
 A. Jaouadi, A. Jamel, M. Abdallah, Y. Messaoudi, B. Ibnezzine, N. Ben Halima (Kairouan, TN)
- ACUTE HEART FAILURE - EPIDEMIOLOGY, PROGNOSIS, OUTCOME**
- Characteristics and management of post-acute coronary syndrome acute heart failure patients in indonesia** P2106  
 A.F. Sunjaya, A.P. Sunjaya, A. Priyana (Jakarta, ID)
- Acute kidney injury in patients with acute decompensation of chronic heart failure** P2107  
 E. Mezhonov, Y. Vyalkina, S. Shalaev (Tyumen, RU)
- Heart failure in France- insights from a cohort of french heart failure patients using claims data** P2108  
 F. Zannad, T. Damy, E. Van Ganse, F. Dalon, M. Belhassen, M. Nolin, A. Fraschke, J.B. Briere, D. Oksen (Nancy, Creteil and Lyon, FR; Berlin, DE)
- Prognostic value of serum potassium levels among Egyptian patients hospitalized with acute heart failure: data from ESC heart failure long-term registry** P2109  
 M. Mishriky, D. Labib, M. Saraya, B. Ibrahim, A. Elshazly, M.W. Aboleineen, H. Sobhy, G. Nasr, M. Ashmawy, N. Farag, M. Sobhy, A. Elbahry, A. Reda, M. Hassanein, M. Abdelhamid (Cairo, Alexandria, Zagazig, Tanta, Ismailia, Port Fouad and Shebin El-kom, EG)

Posters Sessions

<b>Comparison of clinical profile and outcomes of patients with acute dyspnea due to acute heart failure, pulmonary causes or combination thereof</b>	P2110
M. Kezeviciute, Z. Abramikas, A. Cesnauskaitė, A. Montrimas, K. Cerlinskaite, A. Mebazaa, A. Kavoliuniene, J. Celutkienė (Vilnius and Kaunas, LT; Paris, FR)	
<b>The influence of diabetes mellitus on outcomes in patients with acute heart failure</b>	P2111
K.L. Tan, S.H. Kamsani, A. Roslan, H.B. Koh, K.C. Lim, M.A. Sulong, S.S. Lim, C.K. Teoh, A. Mohd Ghazi (Kuala Lumpur, MY)	
<b>Incidence, predictors, and implications of readmission for heart failure after acute myocardial infarction</b>	P2112
P.S. Song, M.J. Kim, H.M. Kim, B.H. Oh, Y.G. Ahn, M.H. Jeong (Incheon and Gwangju, KR)	
<b>Selenoprotein P deficiency and risk of mortality and re-hospitalisation in acute heart failure</b>	P2113
A. Jujic, O. Melander, A. Bergmann, O. Hartmann, P.M. Nilsson, E. Bachus, J. Struck, M. Magnusson (Lund, SE; Hennigsdorf, DE)	
<b>Impact of anemia on long-term clinical outcome in patients with left ventricular systolic dysfunction after acute myocardial infarction</b>	P2114
E.E. Kim, B.H. Hwang, K. Chang, Y. Ahn, J.J. Kim (Seoul and Gwangju, KR)	
<b>The relationship between hemoconcentration during hospitalization and outcomes in patients hospitalized for acute heart failure</b>	P2115
S. Kittiprachakul, M. Anuntasainont, C. Thimphitthaya, P. Sriparn, P. Lalitnithi, A. Trongtorsak, A. Ariyachaipanish (Bangkok, TH)	
<b>Neutrophil-lymphocyte ratio predicts in-hospital and post-discharge 3-year mortality in acute heart failure patients</b>	P2116
J.H. Cho, H.J. Cho, H.Y. Lee, B.H. Oh (Seoul, KR)	
<b>Short-term outcome of hypokalemia in patients hospitalized for acute heart failure in a heart failure unit.</b>	P2117
S. Atesler, C. Goetz, M. Benichou, K. Khalife, N. Zannad (Metz, FR)	
<b>Heart failure detection in an urban population</b>	P2118
A. Kirresh, A. Mathew, A. Kaba, S. Hashmy, R. Grant, S. Khan, B. Unger-Graeber (London, GB)	
<b>Short and mid-term prognosis of acutely decompensated heart failure by clinical scenarios on admission</b>	P2119
K. Ishizu, A. Isotani, N. Fukunaga, T. Morinaga, M. Yano, S. Ito, S. Mori, K. Hirose, S. Fujioka, M. Nakamura, K. Ando (Kitakyushu, JP)	
<b>The prognostic impact of hepatic injury in acute heart failure</b>	P2120
L.M. Ferraz, J.L. Martins, P. Carvalho, A.C. Faustino, J.A. Santos (Aveiro, PT)	
<b>Incidence and prognostic value of acute kidney injury in patients with acute decompensated heart failure</b>	P2121
S. Avdoshina, M. Efremovtseva, Z. Kobalava (Moscow, RU)	
<b>Long-term outcomes of patients discharged from acute heart failure hospitalisation and differences between patients with preserved and reduced left ventricular ejection fraction - AHEAD registry</b>	P2122
M. Miklikova, R. Miklik, R. Spacek, J. Spinar, K. Zeman, K. Benesova, M. Felsoci, L. Pohludkova, L. Dusek, J. Jarkovsky, P. Lokaj, J. Parenica (Brno and Frydek-Mistek, CZ)	
<b>Incidence and impact of renal dysfunction in patients with acute heart failure</b>	P2123
C. Lesgidis, C. Mantis, K. Kintis, A. Anadiotis, S. Patsilinakos (Athens, GR)	

**CORONARY ARTERY DISEASE**

<b>Comparison of outcomes of patients with ST-elevation myocardial infarction with vs without hypothyroidism</b>	P2124
H. Arshad (Newark, US)	
<b>Effect of cardiac rehabilitation on the cardiac structure and function in patients with acute myocardial infarction</b>	P2125
I.W. Seong, J.H. Park, B.S. Seo, J.A. Kim, J.H. Lee (Daejeon and Cheongju, KR)	

## Posters Sessions

- Long-term prognostic impact of post-discharge heart failure after ST-segment elevation myocardial infarction** P2126  
L. Savic, I. Mrdovic, M. Asanin, G. Krljanac, R. Lasica, B. Kastel, D. Rajic (Belgrade, RS)
- Comparison of eplerenone and spironolactone effects in prevention of left ventricular remodeling and development of heart failure in patients after STEMI** P2127  
I. Rodionova, Y.V. Hilova, M.P. Kopytsya, I.N. Kutya, O.V. Petyunina (Kharkiv, UA)
- Long-term results of coronary artery bypass surgery in patients with Q-myocardial infarction and postinfarction angina** P2128  
A. Medvedeva, L. Gelis, I. Lazareva, N. Rineiska, V. Shumovets, D. Kovalenko, S. Pashkevitch (Minsk, BY)
- Mid-term follow-up after Coronary Bypass Surgery in low ejection fraction patients including preoperatively treated with levosimendan** P2129  
E. Vlasova, V. Gazizova, E. Dzybinskaya, V. Gramovich, V. Vasilyev, A. Shiryaev, R. Akchurin (Moscow, RU)
- Dynamics of functional condition in patients with NSTEMI depending from hospital treatment strategy.** P2130  
I.A. Mezhiievska, V.I. Maslovskiy, Y.V. Maslovskiy (Vinnitsa, UA)
- Use of aspirin as primary prevention prior to an acute coronary syndrome** P2131  
F.M. Fonseca Goncalves, J.P. Guimaraes, S.C. Borges, J.J. Monteiro, P.S. Mateus, J.I. Moreira (Vila Real, PT)
- Coronary revascularization does not improve echocardiographic ejection fraction or serum NT-proBNP levels but may improve left ventricular diastolic function in patients with developed heart failure.** P2132  
M. Popovska-Petrova, P. Petrov, M. Grigorov, P. Gatzov, H. Kamah, N. Ivanov, S. Dimitrov (Sofia, BG)
- Impact of the baseline systolic dysfunction on the long-term outcomes of elective percutaneous coronary interventions** P2133  
E. Vershinina, A.N. Repin (Tomsk, RU)
- In-hospital results of Coronary Artery Bypass Grafting in patients with low left ventricular ejection fraction: focus on preoperative medical prepare, experience in the use of levosimendan** P2134  
V. Gazizova, E. Vlasova, E. Dzybinskaya, D. Galyautdinov, A. Shiryaev, R. Akchurin (Moscow, RU)
- Platelet aggregation test with adenosine diphosphate in prevention of early coronary stent thrombosis** P2135  
E. Gitelson, A. Faybushevich, D. Gitelson, V. Baranovich, G. Veretnik, D. Maximkin (Moscow, RU)
- Heart failure control in patient with coronary artery disease** P2136  
S.L. Mosteoru, R. Pleava, C. Totorean, A. Dumitrescu, L. Gaita, D. Gaita (Timisoara, RO)

### VALVULAR HEART DISEASE

- Usefulness of balloon aortic valvuloplasty in the management of patients with aortic stenosis** P2137  
E. Munoz-Garcia, M. Munoz-Garcia, A.J. Munoz Garcia, J.H. Alonso-Briaies, C. Alonso-Laza, A.J. Dominguez-Franco, J.M. Garcia-Pinilla, J.J. Gomez-Doblas, J.M. Hernandez-Garcia, M.F. Jimenez-Navarro (Malaga, ES)
- Predictors of heart failure after aortic valve replacement in 2,500 patients** P2138  
W.P. Mistiaen, I. Deblier, K.M.E. Dossche, A. Vanermen (Antwerp, BE)
- Hemostatic system changes in infective endocarditis patients before and after surgical heart valves operation** P2139  
O. Shatova, N. Feaktsistava, N. Kazaeva, S. Sudjaeva, O. Sudjaeva (Minsk, BY)
- A systematic review on the Lambre atrial appendage closure device** P2140  
M. Noutsias, M. Ali, M. Mammadov, A.R. Torky, M. Matiakis, E. Abate, B. Bigalke, A.R. Rigopoulos (Halle and Berlin, DE)
- Increase of MitraClip and further structural heart disease procedures at a tertiary center by enhanced awareness, standardized screening and interdisciplinary networks** P2141  
M. Noutsias, M. Ali, M. Matiakis, E. Abate, M. Mammadov, A.G. Rigopoulos (Halle, DE)

## Posters Sessions

- Impact of percutaneous mitral repair with MitraClip on the natural history of severe mitral regurgitation** P2142  
 I. Aguiar Ricardo, E. Oliveira, A.R. Francisco, P.C. Ferreira, J. Agostinho, J. Rigueira, R. Santos, A. Nunes-Ferreira, T. Rodrigues, N. Cunha, P. Morais, M. Nobre-Menezes, F.J. Pinto, P. Canas Da Silva (Lisbon, PT)
- one year mortality outcomes in patients with aortic stenosis and reduced left ventricular ejection fraction undergoing tavr procedure** P2143  
 B. Kilicaslan, E. Ozel, B. Unal, B. Arslan, C. Ekmekeci, O. Ozdogan, F. Ertas, C. Sari (Izmir and Diyarbakir, TR)
- Patients with prosthetic valve endocarditis admitted in non-reference centers may substantially benefit from infectious diseases specialist wisdom in antibiotic regimen selection** P2144  
 M.M. Baluta, E. Panaitescu (Bucharest and Bucharest, RO)
- Current characteristics of infective endocarditis in a developing country: a prospective cohort study** P2145  
 S. Furnaz, N.Q. Qamar, T.S. Saghir (Karachi, PK)

### MYOCARDIAL DISEASE

- Myocardial fibrosis and long-term outcome after septal myectomy in hypertrophic cardiomyopathy** P2146  
 V. Zaitsev, K. Badaev, A. Gurschenkov, A. Ryzhkov, L. Mitrofanova, E. Kazakova, O. Moiseeva (Saint Petersburg and Saint-Petersburg, RU)
- Etiological structure of phenocopies of hypertrophic cardiomyopathy in different age groups** P2147  
 A.A. Poliakova, E.N. Semernin, A.N. Krutikov, A.A. Kostareva, A.Y.A. Gudkova (Saint-Petersburg, RU)
- Analysis of ICD therapies in patients with hypertrophic cardiomyopathy** P2148  
 L.L. Buttigieg, M. Zammit Burg, T. Felice (Malta, MT)
- Is 24-hour Holter ECG monitoring a useful baseline assessment for the detection of arrhythmias in patients with peripartum cardiomyopathy?** P2149  
 C.A. Viljoen, J. Hoevelmann, F. Azibani, O. Briton, A. Chin, K. Sliwa (Cape Town, ZA)
- Cardiomyopathies due to primary myodystrophies in the Russian cohort of patients: clinical, morphological, genetic diagnostics and outcomes** P2150  
 O.V. Blagova, A.V. Nedostup, V.P. Sedov, E.A. Kogan, A.G. Shestak, M.E. Polyak, E.V. Zaklyazminskaya (Moscow, RU)
- Familial acute myocarditis or inherited dilated cardiomyopathy antigen-triggered debut? The role of genetics in understanding disease.** P2151  
 P. Jorda, M. Farrero, E. Sandoval, M.A. Castel, D. Pereda, E. Quintana, E. Arbelo, A. Sanchez, O. Campuzano, J. Casal, R. Brugada, L. Mont, M. Castella, F. Perez-Villa, A. Garcia-Alvarez (Barcelona and Girona, ES)
- Clinical, echocardiographic and laboratory profile of dilated cardiomyopathy with and without atrial fibrillation.** P2152  
 E.M. Dziewiecka, A. Karabinowska, M. Glimak, M. Winiarczyk, A. Karapetyan, S. Wisniowska-Smialek, P. Podolec, P. Rubis (Krakow, PL)
- Impact of left bundle branch block on left ventricular mechanics in patients with idiopathic dilated cardiomyopathy** P2153  
 W. Hamed, H.M. Badran, A. Emara, N. Fahim, M. Fathey, M. Yacoub (Shebin El-kom, EG; London, GB)
- Left ventricular functional reserve is a main determinant of exercise capacity in patients with idiopathic dilated cardiomyopathy** P2154  
 H. Badran, N. Faheem, M. Rabaie, M.H. Yacoub (Shebin, EG; London, GB)
- New insights into genetic architecture of recent onset dilated cardiomyopathy by whole-exome sequencing** P2155  
 A. Chaloupka, L. Piherova, I. Grochova, J. Krejci, J. Binova, B. Kmoch, L. Spinarova, M. Kubanek (Brno and Prague, CZ)
- QRS dispersion in dilated cardiomyopathy, clinical and echocardiographic correlations** P2156  
 R. Diaconu, I. Donoiu (Craiova, RO)

## Posters Sessions

- Genetic screening of patients with dilated cardiomyopathy assessed by next-generation sequencing** P2157  
 J. Borbas, A. Tringer, V. Nagy, B. Csanyi, L. Hategan, A. Borbely, N. Nyolczas, R. Faludi, Z. Hegedus, I. Nagy, T. Forster, R. Sepp (Szeged, Debrecen, Budapest and Pecs, HU)

### HYPERTENSION

- Sympathetic Renal denervation in patients with refractory arterial hypertension: 2-years follow-up** P2158  
 Z. Shugushev, D.A. Maximkin, A. Chepurnoy, O. Safonova, A. Faibushevich (Moscow, RU)
- Oxidative stress levels in obese hypertensive patients versus obese normotensive patients** P2159  
 M.A. Gaman, M.E. Epingeac, C.C. Diaconu, A.M. Gaman (Bucharest and Craiova, RO)
- The effect of initial pulse pressure on heart failure readmission in hypertensive octogenarian patients presenting acute myocardial infarction treated with percutaneous coronary intervention** P2160  
 J.C. Choe, J.H. Choi, J.Y. Shin, J. Ahn, J.S. Park, H.W. Lee, J.H. Oh, H.C. Lee, K.S. Cha, T.J. Hong, M.H. Jeong (Pusan and Gwangju, KR)
- Skin autofluorescence is associated with arterial stiffness measured by pulse wave analysis in a general population** P2161  
 A. Jujic, M. Magnusson, M. Persson, G. Engstrom, O. Melander, P.M. Nilsson (Lund and Malmo, SE)
- Chemerin in prognosis of heart failure development in hypertensive patients with obesity and diabetes mellitus** P2162  
 B. Shelest, I.V. Rodionova, Y. Kovalova (Kharkiv, UA)
- The use of natriuretic peptides in predicting renal and cardiovascular outcomes after renal stenting in high-risk renal artery stenosis patients** P2163  
 D.O. Geavlete, C. Beladan, D. Deleanu, M.R. Zaharia, O. Tautu, B.A. Popescu, C. Ginghina, O. Chioncel (Bucharest, RO)
- Adropin as prognostic factor in heart failure development in hypertensive patients** P2164  
 B. Shelest, Y. Kovaleva, I.V. Rodionova (Kharkiv, UA)

### CARDIOVASCULAR DISEASE IN SPECIAL POPULATIONS

- Clinical features of immune checkpoint inhibitor-related cardiotoxicity** P2165  
 Y. Kirichenko, Y. Belenkov, A.R. Lyon (Moscow, RU; London, GB)
- Does a clinical scientist led cardio-oncology clinic improve surveillance for cardio-toxicity for patients receiving trastuzumab compared to oncology services alone?** P2166  
 J. Draper, K. Victor, J. Smith, J. Webb, S. Kapetanakis (London, GB)
- The prevalence of elevated heart rate in oncology patients: a risk factor revisited.** P2167  
 H. Aridi, G. Iskandarani, J. El Cheikh, A. Bazarbachi, H. Skouri (Beirut, LB)
- Endovascular treatment of ischemic heart disease in patients with blood cancer** P2168  
 E. Gitelson, A. Faybushevich, V. Baranovich, G. Veretnik, D. Maximkin, D. Gitelson (Moscow, RU)
- Cardio-renal interaction in young patients with Type 1 Diabetes Mellitus** P2169  
 N. Safarova, Z. Kobalava, Y. Mahamat, A. Safarova, V. Efimova (Moscow, RU)
- Clinical impact of acute kidney injury in patients with acute coronary syndrome** P2170  
 F.M. Fonseca Goncalves, P.S. Mateus, J.P. Guimaraes, J.I. Moreira (Vila Real, PT)
- Anemia and cardiovascular mortality in dialysis patients.** P2171  
 M. Cafka, M. Rroji, J. Seiti, S. Seferi, J. Djamandi, E. Zace, A. Goda (Tirana, AL)
- Echocardiographic predictors of interatrial block in patients with severe chronic kidney disease** P2172  
 M. Kalcik, M. Yetim, T. Dogan, L. Bekar, I. Dogan, B. Eser, O. Karaarslan, I. Ekinozu, M.M. Yilmaz, T. Gokdeniz, Y. Karavelioglu, Z. Golbasi (Corum and Çorum, TR)
- Electrocardiographic predictors of the future development of atrial fibrillation in patients with end-stage renal disease** P2173  
 H. Chung, J.M.L. Lee, J.S.W. Woo, J.B.K. Kim, S.J.K. Kim, W.K. Kim, W.S.K. Kim (Seoul, KR)
- Relationship between echo parameters and reduced LV longitudinal strain in end stage renal disease patients undergoing hemodialysis with preserved LV systolic function** P2174  
 E. Tamulenaite, R. Zvirblyte, E. Ziginiskiene, E. Ereminiene (Kaunas, LT)

## Posters Sessions

### E-CARDIOLOGY / DIGITAL HEALTH

- Clinical impact of non-invasive telemonitoring in patients with chronic heart failure** P2175  
 A. Nunes Ferreira, J.R. Agostinho, J. Rigueira, I. Aguiar-Ricardo, I.S. Goncalves, R. Santos, T. Rodrigues, N. Cunha, T. Guimaraes, M. Mendes Pedro, F. Veiga, F.J. Pinto, D. Brito (Lisbon, PT)
- Hybrid telerehabilitation in heart failure patients (TELEREH-HF) a randomized, prospective, open-label, parallel group, controlled, multi-center trial -study design and description of the intervention** P2176  
 E. Piotrowicz, G. Opolski, M. Banach, W. Zareba, M. Pencina, R. Piotrowicz (Warsaw and Lodz, PL; Rochester and Duke, US)
- VECTOR-HF: The first human experience with a wireless left atrial pressure monitoring system for patients with heart failure** P2177  
 H. Sievert, D. Erdheim, K. Sievert, P. Matic, M. Reinartz, B. Jovanovic, S. Zaker, I. Hofmann, L. Vaskelyte (Frankfurt am Main, DE; Tel Aviv, IL)
- Wearable multi-sensor platform with 7 days-ECG** P2178  
 K.J.G. Schmailzl, H. Toumi, F. Thomas, M. Woellenstein (Cottbus and Neuruppin, DE)
- Young computer-literate health care professionals have the greatest expectations for heart failure telemonitoring** P2179  
 E. Lycholip, I. Thon Aamodt, I. Lie, R. Helleso, A. Stromberg, T. Jaarsma, J. Celutkiene (Vilnius, LT; Oslo, NO; Linkoping and Norrkoping, SE)
- The place of telemedicine in the management of heart failure in community medicine: general practitioner perceptions of a regional telemedicine platform in Normandy, France** P2180  
 R. Sabatier, D. Legallois, G. Tonani, V. Donio, M. Dova-Boivin, T. De Chalus, A. Belin (Caen, Bourg La Reine and Boulogne-Billancourt, FR)
- Awareness study of patients with arterial hypertension** P2181  
 O. Demikhov, S. Nei, N. Demikhova (Sumy, UA; Tartu, EE)

### BASIC SCIENCE

- Daily monitoring parameters of arterial stiffness and central aortic pressure in patients with ankylosing spondylitis** P2182  
 T. Aksenova, N. Ivashenko, V. Gorbunov, S. Tsarenok, P. Gromov (Chita, RU)
- Prothrombotic state as a causative of impaired left ventricular diastolic function in patients with primary antiphospholipid syndrome** P2183  
 A. Djokovic, L. Stojanovich, N. Stanisavljevic, M. Zdravkovic, D.V. Simic (Belgrade, RS)
- Echocardiographic differences between early- and late anthracycline-induced cardiotoxicity reveals a distinct cardiomyopathy phenotype** P2184  
 J.A.M. Kamphuis, M.P.M. Linschoten, A. Van Rhenen, R.M. Bijlsma, M.J.M. Cramer, F.W. Asselbergs, P.A.F. Doevendans, A.J. Teske (Utrecht, NL)
- Association of expression of steroid receptors with development of chemotherapy induced cardiotoxicity in Patients with breast cancer** P2185  
 M.N. Kim, S.M. Park, H.D. Kim, D.H. Cho, S.P. Jung, K.H. Park, W.J. Shim (Seoul, KR)
- Hand grip strength testing in cancer patients** P2186  
 P. Weinlaender, S. Hadzibegovic, A. Lena, L.-C. Lueck, A. Letsch, W. Doehner, U. Landmesser, S. Von Haehling, S.D. Anker, M.S. Anker (Berlin and Gottingen, DE)
- Echocardiographic phenotype and long-term prognosis in patients with light-chain cardiac amyloidosis** P2187  
 A. Ntalianis, E. Tseliou, E. Repasos, E. Papadopoulou, M. Tselegkidi, N. Zografos, D. Ziogas, A. Koutsoukis, G. Maglaras, J. Stamoulopoulos, A. Koen, I. Dialoupi, E. Kastritis, M.A. Dimopoulos, I. Paraskevaïdis (Athens, GR)
- Evidence for a cardiac metabolic switch in patients with Hodgkin's Lymphoma** P2188  
 M.B. Heckmann, B. Totakhel, D. Finke, M.S. Anker, C. Mueller-Tidow, U. Haberkorn, H.A. Katus, L.H. Lehmann (Heidelberg and Berlin, DE)



## Posters Sessions

- Early detection of cardiotoxicity in breast cancer patients: red flags according to a traffic lights-like coding system after long-term experience at a referral centre** P2189  
 M.E. Tettamanti, I. Gimenez, C. Chacon, V. Costanzo, J. Nadal, A. Nervo, F. Losco, R. Chacon, D.A. Santos (Buenos Aires, AR)
- First preliminary demographic data of the referrals from a university hospital Cardio-Oncology outpatient clinic** P2190  
 A. Ntalianis, A. Misegiannidis, K. Tampakis, E. Repasos, M. Kondylis, I. Petropoulos, G. Maglaras, E. Aninos, A. Mareti, E. Venieri, N. Zografos, F. Zagouri, N. Pampoukas, M.A. Dimopoulos, I. Paraskevaïdis (Athens, GR)
- Cardio-toxicity among sarcoma patients: a cardio-oncology registry** P2191  
 L.M. Laufer-Perl, Z. Rozenbaum, O. Merimsky, J. Sherez, G. Keren, Y. Topilsky, Y. Arbel, S. Shamai (Tel Aviv, IL)

### BASIC SCIENCE AND TRANSLATIONAL

- Basic Science and Translational - Poster discussant.** P2192
- Heart failure with reduced ejection fraction is characterized by systemic NEP downregulation** P2193  
 N. Pavo, J. Winkler, D. Traxler, D. Lukovic, K. Zlabinger, A. Gugerell, G. Goliash, P. Bartko, M. Huelmann, M. Gyoengyoesi (Vienna, AT)
- Metabolic signature of fibrotic remodeling in heart failure: role of galaninergic system** P2194  
 O. Kunduzova, A. Timotin, F.B. Boal, H.T. Tronchere (Toulouse, FR)
- Atorvastatin preserves cardiac contractility via reducing matrix metalloproteinase-2 isoforms expression in a diabetic heart model** P2195  
 H.W. Lee, S.S. Kim, S.H. Song, S.H. Lee, J.Y. Shin, J.C. Choi, J.H. Choi, H.C. Lee, K.S. Cha, T.J. Hong, J.S. Park, J.Y. Kim, R.E. Kim, A.R. Kim (Busan, KR)
- MicroRNAs expression profile in advanced heart failure patients: perspectives for risk stratification** P2196  
 A. Galluzzo, S. Gallo, B. Pardini, D. Celentani, P. Boretto, G. Birolo, S. Gatti, A. Volpe, M. Spilinga, S. Piddello, G. Matullo, S. Bergerone, T. Crepaldi (Turin, IT)
- Efficacy of combinationtherapy with empagliflozin and baseline drugs in postinfarct heart failure in normoglycemic rats** P2197  
 M. Krasnova, A.N. Kulikov, S.V. Okovityi, D.Y.U. Ivkin, A.A. Karpov (Saint-Petersburg, RU)
- The LXR-agonist AZ876 attenuates cardiac damage in an isoproterenol induced HFrEF-like cardiomyopathy model** P2198  
 D. Ritter, A. Blumrich, A. Thiele, E. Smeir, K. Luettges, N. Beyhoff, J. Grune, R. Klopffleisch, A. Foryst-Ludwig, U. Kintscher (Berlin, DE)
- Tenascin-C may accelerate left ventricular remodeling and function after myocardial infarction by enhancing hypertrophy** P2199  
 P.M. Pilz, I.F. Goncalves, E. Acar, S. Costantino, L. Szabo, O. Hamza, E.V. Tretter, K.U. Klein, S. Trojanek, D. Abraham, F. Paneni, S. Hallstroem, A. Kiss, B.K. Podesser (Vienna and Graz, AT; Zurich, CH)
- Excitation-secretion coupling in ventricular cardiomyocytes** P2200  
 K. Zhang, P. Wakula-Heinzel, B. Pieske, F. Heinzel (Berlin, DE)
- Reduced mitochondrial aldehyde dehydrogenase-2 activity and protein levels in left ventricular myocardium of dogs with Heart Failure** P2201  
 H.N. Sabbah, R.C. Gupta, V. Singh-Gupta (Detroit, US)
- Characterization of kidney function in a canine model of cardiorenal syndrome** P2202  
 H.N. Sabbah, R.C. Gupta, D. Lanfear (Detroit, US)
- Cardiac mitochondrial alterations in a mouse model of Fabry Disease** P2203  
 D. Sorriento, J. Gambardella, F. Cerasuolo, N. Boccella, C. Perrino, C.G. Tocchetti, D. Bonaduce, P. Abete, B. Trimarco, M. Ciccarelli, K. Valenzano, G. Iaccarino (naples, Naples and Salerno, IT; Cranbury, New Jersey, US)
- Hydrogen sulfide modulates calcium handling in cardiac mitochondria to maintain their function and helps heart to resist calcium overload** P2204  
 A. Luchkova, N. Strutynska, V. Sagach (Kiev, UA)

## Posters Sessions

- Inhibition of cystathionine gamma-lyase can prevent cardiac dysfunction after focal cerebral ischemia** P2205  
N.A. Dorofeyeva, R.R. Sharipov, V.F. Sagach (Kiev, UA)
- Myocardial iron homeostasis and hepcidin expression in a rat model of chronic heart failure at different levels of dietary iron intake** P2206  
T. Havlenova, J. Petrak, M. Krijt, M. Behounek, J. Franeckova, L. Cervenka, T. Pluhacek, D. Vyoral, V. Melenovsky (Prague and Olomouc, CZ)
- Determination of the mechanisms of ATRA mediated suppression of cardiac hypertrophy** P2207  
L. Parker, N. Yang, K. Papanicolaou, B.O.rourke, B. Foster (Baltimore, US)
- H2S donor (NaHS) improves diastolic function during aging by oxidative stress suppression and constitutive NO synthesis stimulation** P2208  
K. Drachuk, N.O. Dorofeyeva, V.F. Sagach (Kiev, UA)
- Transcriptome sequencing revealed the upregulation of pathways that control regeneration and calcium handling in skeletal muscles of heart failure patients undergoing exercise rehabilitation program** P2209  
O. Ivanova, E.V. Ignatieva, T.A. Lelyavina, V.L. Galenko, A.M. Kiselev, M.Y. Sitnikova, A.A. Kostareva, R.I. Dmitrieva, A.A. Sergushichev (Saint Petersburg, RU)
- Gonadectomy alters the effect of preconditioning training on the development of a hypoxic pulmonary hypertension in female rats** P2210  
N. Pankova, M. Artemieva, E. Volynnikova, N. Medvedeva (Moscow, RU)
- Analysis of whole blood viscosity and gastrointestinal response between low dose aspirin, clopidogrel, and cilostazol single pill in rabbit model (AGACCI trial)** P2211  
S.M. Park, M.S. Kim, M.H. Jung, H.H. Choi, C.W. Goh, K.S. Hong, H. Lee (Chuncheon and Gumi, KR)
- Targeted expression of CAMKII beta 4 in myocardium leads to DCM through dephosphorylation mechanisms** P2212  
B. Tuana, Y. Fanous, M. Trenten-Sonoda, F.G. Da Silva, J.L. Major, M. Salih, M.S. Carneiro-Ramos (Ottawa, CA)
- Pulmonary inflammation and vasculature remodeling in a model of heart failure with preserved ejection fraction: effects of ranolazine** P2213  
A. De Angelis, L.P. Ciuffreda, D. Cappetta, A. Liparulo, A. Micciche', B.D. agostino, L. Berrino, K. Urbanek (Naples, IT)

### CLINICAL CASE

- Right ventricular assist device (RVAD): An adjuvant therapy in variety of cardiovascular procedures** P2214  
M. Molina, Y. Quiaoit (Philadelphia, US)
- Off pump implantation of HeartMate III LVAD and closure of patent foramen ovale in patient with HIT** P2215  
S. Cesini, S. Bhagra, Y. Abu-Omar, P. Catarino, S. Pettit (Cambridge, GB)
- Interpretation of blood pressure (BP) values using noninvasive blood pressure measurement in patients with continuous-flow left ventricular assist device (LVAD) - clinical problem** P2216  
M. Lazarova, T. Kara, R. Aiglova, J. Stritecky, P. Nemeč, M. Taborsky (Olomouc, Hradec Kralove and Brno, CZ)
- With and without you: LVAD unplugged** P2217  
F. Loiacono, S. Vazquez, J.M. Dominguez, G. Spitaleri, B. Keller, A. Castel, M. Farrero, F. Perez-Villa (Barcelona, ES)
- Idarucizumab for urgent reversal of dabigatran before orthotopic heart transplantation** P2218  
M. Dankova, P. Lesny, M. Luknar, E. Goncalvesova (Bratislava, SK)
- Heart transplant for acute heart failure in kearnes sayre syndrome** P2219  
D. Miani, A. Paldino, G. De Maglio, S. Pizzolito, N. Finato, C. Di Nora, A. Proclemer, U. Livi (Udine and Trieste, IT)
- Multiple cerebral infarcts in Chagas cardiomyopathy with Left Ventricular reduced Ejection Fraction : A Case report.** P2220  
E.J.J. Chuquiure, L. Medina-Paz, C. Anaya-Morales, D. Garcia-Romero, M. Balbuena-Madera, C. Silva-Ruz, E. Tapia-Lopez, O. Fiscal-Lopez (Mexico City, MX)

## Posters Sessions

- Stress-induced cardiomyopathy after exposure to wildfire** P2221  
V. Kakiouzi, A. Kitsiou, D. Mytas, P. Grammata, V. Tzeltzes, T. Papafanis (Athens, GR)
- A rare and dangerous presentation of alcoholic cardiomyopathy** P2222  
H. Liu, V.K. Le, M. Sadreddini (Toronto and Thunder Bay, CA)
- Predominant cardiac involvement in laminopathy diagnosed at pretransplant assessment** P2223  
K. Hromanikova, M. Kubanek, A. Krebsova, P. Votycka, M. Macek, V. Melenovsky, J. Kautzner (Prague, CZ)
- The effects of phrenic nerve stimulation on heart rate variability: a case study** P2224  
A.J. Coats, R.E.G. Germany, D.W. Bourn, L.R. Goldberg (Warwick, AU; Oklahoma City, Minnetonka and Philadelphia, US)
- A rare case of heart failure with preserved ejection fraction in Erdheim Chester syndrome, at the crossroad of many possible causes** P2225  
A.-E. Patru, M. Anton, D. Coriu, M. Boros, D. Deleanu, A. Bardas, C. Ginghina, B.A. Popescu, C. Jurcut, R. Jurcut (Bucharest, RO)
- A case of infectious endocarditis associated with Laubry-Pezzi syndrome** P2226  
T.H. Phan (Ho Chi Minh City, VN)
- A case of cerebral emboli complicating infective endocarditis caused by Abiotrophia defectiva** P2227  
T.H. Phan (Ho Chi Minh City, VN)
- Flail mitral valve resulting in multiorgan failure** P2228  
P. Fountoulakis, E. Hamodraka, A. Siama, A. Tsoukas, A.J. Manolis (Athens, GR)
- Anterolateral papillary muscle rupture with non obstructive coronary artery disease** P2229  
S. Borges, F. Goncalves, J.P. Guimaraes, J.J. Monteiro, C. Ferreira, J.I. Moreira (Vila Real, PT)
- Heart metastasis of a mandibular cancer** P2230  
S. Antit, S. Chenik, I. Boussabeh, M. Thameur, L. Zakhama, S. Benyoussef (Marsa, TN)
- Acute massive pulmonary embolism treated with surgical embolectomy** P2231  
I. Refatllari, A. Banushi, H. Gjergo, E. Prifti, A. Veshti, K. Krakulli, R. Xhaxho, A. Goda (Tirana, AL)
- Clinical case of cystic medionecrosis of pulmonary arterial trunk as a probable cause of thrombosis of its branches in 81-year-old woman** P2232  
I.A. Leonova, S. Boldueva, V. Petrova, I. Danilova (St-Petersburg, RU)
- Case with successful interventional treatment with local thrombolysis for high-risk pulmonary embolism in a patient with multiple blood transfusions after gastrointestinal bleeding** P2233  
K. Trayanova Stoyanova, R. Ivanova, K. Karamfiloff, M. Shumkova, T.S. Boneva, L. Vladimirova, R. Marinova, V. Pakerov, D. Vassilev (Sofia, BG)
- Pulmonary embolism after ablation of supraventricular tachycardia** P2234  
N. Ohashi, K. Yamada, H. Taniguchi, A. Furukawa, Y. Tamura, Y. Aizawa, T. Okabe, A. Kawamura (Tokyo, JP)
- Rare cause of desaturation in a patient with decompensated chronic heart failure** P2235  
A. Nossikoff, K. Angeloff, N. Koleva, D. Evrev, T. Donova (Sofia, BG)
- Asymptomatic underwater swimmer with pulmonary hypertension and dilatation of right heart chambers - true or false?** P2236  
K. Mekhdieva, Y.U. Zinovieva, V. Timokhina, E. Smirnov, A. Zakharova (Yekaterinburg, RU)
- Pulmonary hypertension in the setting of complex structural heart disease** P2237  
A. Vishnevsky, P. Pirlimarla, N.J. Ruggiero, P. Mehrotra, A. Qureshi, G. Reeves, H.T. Massey, R. Alvarez (Philadelphia, US)
- Heart transplantation in a child with Ebstein's Anomaly and primary cardiomyopathy** P2238  
K. Chueva, T. Loevets, T. Pervunina, T. Vershinina, P. Fedotov, E. Vasichkina, R. Tatarskii, D. Lebedev (Saint Petersburg, RU)
- A heart failure with brilliantly preserved ejection fraction.** P2239  
S. Hernandez Jimenez, E. Rajjoub Al Mahdi, G. Alonso Salinas, J.D. Sanchez Vega, M. Abellas Sequeiros, J.L. Zamorano Gomez (Madrid, ES)
- Diastolic heart failure - As bad as it gets, before it gets better** P2240  
S. Albu, A. Dumitrache, C. Ginghina, B. Popescu, R. Jurcut (Bucharest and Brasov, RO)
- Takotsubo syndrome masking apical hypertrophic cardiomyopathy** P2241  
S. Lypovetska, M. Shved, V. Gurskyi (Ternopil, UA)

## Posters Sessions

- Accidentally discovered aortic dissection in young patient with left ventricular hypertrophy: hypertensive heart or hypertrophic cardiomyopathy?** P2242  
M. Gawor, M. Franaszczyk, Ł. Mazurkiewicz, A. Klisiewicz, M. Spiewak, M. Marczak, I. Michalowska, J. Grzybowski (Warsaw, PL)
- Hypertrophic cardiomyopathy patients with co-existing pathology: the role of heart team** P2243  
K. Rudenko, V. Lazoryshynets, O. Krykunov, B. Cherpak, I. Ditkivskiy, O. Chyzhevskaya, L. Nevmerzhytska, O. Trembovetska, P. Danchenko (Kiev, UA)
- Heart failure aggravated by beta blockers. Could this suggest the etiology?** P2244  
R.-D. Adam, A. Jercan, S. Badelita, A.G. Fruntelata, R. Ciudin, B.A. Popescu, C. Ginghina, M. Draghici, C. Stan, D. Coriu, R. Jurcut (Bucharest, RO)
- Significance of left ventricular pronounced trabeculations in a patient with recurrent decompensated heart failure** P2245  
A.M. Chitroceanu, N. Patrascu, V. Vintila, D. Mihalcea, C. Stuparu, D. Vinereanu (Bucharest, RO)
- Titin mutations - a role still to unriddle** P2246  
A. Neto, D. Seabra, I. Oliveira, A. Andrade, P. Pinto (Penafiel, PT)

Heart **Failure**  
2019

• **Index**

**List of Chairpersons**  
**Judges, Speakers**  
**Discussants, Authors**

## Chairpersons & Judges

NAME	PAGE(S)	NAME	PAGE(S)	NAME	PAGE(S)
Abdelhamid M.	47, 94	Celutkiene Jelena	95, 134	Gustafsson Finn	91, 97
Adamopoulos Stamatīs	183	Chioncel Ovidiu	84, 94, 144	Hansen Tina	86
Agathangelou P.	37	Chopra Vijay	138	Harjola Veli-Pekka	23, 27
Agostoni Piergiuseppe	22, 26	Climent Andreu	139	Hasin Tal	98
Agricola Eustachio	20, 24, 25, 28	Coats Andrew	38, 42, 44, 50, 82, 93, 132, 141, 185	Heymans Stephane	93, 150
Al Hebaishi Yahya	142	Cohen-Solal Alain	148	Hill Loreena	86, 93
Anastasakis A.	183	Collins Sean	137, 144	Huelsmann Martin	133
Angermann Christiane E.	48	Comin-Colet Josep	136	Hulot Jean-Sebastien	145
Anker Stefan	43, 82, 87, 132, 133, 136, 138, 141, 144, 182	Condorelli Gianluigi	37	Iakobishvili Zaza	138, 146
Anker M.	34	Cooper Leslie	44	Iliodromitis E.	44, 139
Assmus Birgit	91	Cowie Martin	40, 42, 85, 100	Jaarsma Tiny	88, 145
Asteggiano Riccardo	132	Crespo-Leiro Maria G.	142	Jankowska Ewa Anita	139
Balligand Jean-Luc	31,	Damy T.	49	Jessup Mariell	81, 144, 150
Barberis V.	139	De Boer Rudolf	37, 38, 48, 95, 133	Kanakakis Ioannis-Georgios	94
Bauersachs Johann	95, 149	Di Somma Salvatore	184	Kanonidis Ioannis	37
Bax Jeroen	43, 81	Dickstein Kenneth	145	Kapelios Chris	137
Bayes Genis Antoni	100	Dimopoulos Meletios A.	92	Karason Kristjan	23, 27
Belenkov Yury	183	Drozd M.	185	Karatzas Dimitrios	88
Ben Gal Tuvia	138, 144	Ekman Inger	144	Karavidas Apostolos	45
Bistola Vasiliki	150	Farmakis Dimitrios T	23, 27	Keramida Kalliopi	136
Boehm Michael	98	Filippatos Gerasimos	32, 39, 43, 50, 83, 86, 90, 93, 140, 149, 185	Keren Andre	184
Boletis John	100	Fitzsimons Donna	81, 134	Kober Lars	91
Boyne Josiane	86	Fiuzat Mona	36	Komajda Michel	81, 133
Bozkurt Biykem	44	Frogoudaki Alexandra	48	Kotecha Dipak	134
Brunner-La Rocca Hans-Peter	33, 34, 40, 98	Gara Edit	96, 147	Lainscak Mitja	144
Brutsaert Dirk	93, 150	Garcia-Pinilla Jose Manuel	22, 26	Lam Carolyn S.	81, 140, 145, 147
Bucciarelli-Ducci Chiara	96, 183	Gargani Luna	181	Lambrinou Ekaterini	88
Butler Javed	36, 39, 45, 147	Giannakoulas George	94	Leclercq Christophe	91, 95, 132
Carnevale Daniela	83	Gonzalez Miquel Arantxa	93	Ledwidge M.	93
Cavusoglu Yuksel	48	Goudevenos John A.	82	Levin Howard	41
Cecconi C.	149	Grapsa Ioulia	34	Linde Cecilia	87, 142
				Lopatin Yury	85, 99, 133, 149

## Chairpersons & Judges

NAME	PAGE(S)	NAME	PAGE(S)	NAME	PAGE(S)
Lund Lars	85, 149	Pina Ileana	144	Trikas Athanasios	32
Lyon Alexander	46, 132	Pinto Fausto Jose	45	Tschoepe Carsten	44
Maack Christoph	35, 46, 49	Pitt Bertram	36	Tsvigoulis Georgios K.	49
Mamas Mamas	32	Polzl Gerhard	23, 27	Tsioufis C.	81
Manintveld Olivier	143	Ponikowski Piotr	90	Tsutsui Hiroyuki	93, 150
McDonagh Theresa	82	Popescu Bogdan A.	87, 184	Tziakas D.N.	37
McMurray John	89, 140	Price Susanna	47, 99, 143	Uchmanowicz Izabella	37, 86
Mebazaa Alexandre	32, 40, 90, 99, 145, 149	Rakisheva Amina	36	Van Hees Dirk	20, 24, 25, 28
Meder Benjamin	88, 150	Rapezzi Claudio	140	Vardas Panagiotis	46, 95, 182
Mehra Mandeep	93	Recio Mayoral Alejandro	23, 27	Vassilikos Vassilios P.	87
Metra Marco	81, 87, 99, 144	Reinecke Alexander	23, 27	Vergaro Giuseppe	83, 97
Milicic Davor	138	Rosano Giuseppe M.C.	81, 185	Volterrani Maurizio	135, 144, 148
Milinkovic Ivan	97	Ruschitzka Frank	32, 39, 86, 89, 98, 99, 132, 136, 141	Von Haehling Stephan	87
Miro Oscar	45	Schoenrath F.	183	von Lewinski Dirk	22, 26
Mitrovic Veselin	94	Schulze C.	144	Voors Adriaan	38, 42, 82, 131
Moura Brenda	87	Sebbag L.	185	Wallner Markus	33, 136
Mueller Christian Eugen	137	Seferovic Petar	32, 38, 49, 50, 88, 89, 97, 142, 144	Weinstein Jean Marc	36
Mullens Wilfried	89	Sideris A.	46	Wilfred Jojo	34
Naka Katerina	44	Sievert Horst	141	Windecker Stephan	94
Nihoyannopoulos Petros	45, 82	Sionis A.	96	Xydonas Sotirios	135
Nossikoff Alexander V.	85, 146	Slama Michel	41	Yancy Clyde	137
O'Connor Christopher	36, 45	Sliwa-Hahnle Karen	84	Yerly Patrick	22, 26
Omerovic Elmir	83	Spargias Konstantinos	43	Yilmaz Mehmet Birhan	33
Papp Zoltan	46	Starling Randall	44	Zannad Faiez	39, 141
Parameshwar Jayan	183	Stoerk S.	85	Zima Endre	23, 27
Paraskevaidis Ioannis A	138	Subramanian M.	184		
Parissis John T.	22, 26	Swedberg Karl	81		
Parthenakis F.	88	Templin Christian	46		
Paulus Walter	48	Thum Thomas	100		
Petrie Mark	96	Tolppanen Heli	98, 147		
Piepoli Massimo F.	35, 48	Tousoulis Dimitris	99		
Pieske Burkert	133				

## Speakers & Discussants

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Abraham W.	1434, 155, 1942, 653	Bucciarelli-Ducci C.	730	Dickstein K.	725, 752, 91
Achenbach S.	183	Burkhoff D.	1440	Dimopoulos M.A.	777, 781
Adamopoulos S.	177	Bushnaq H.	755	Drakos S.	1379
Ahmed A.	1452	Butler J.	115, 1399, 1307, 1400, 1415, 1416, 220, 29, 746, 749, 77, 837	Ekman I.	741
Akashi Y.	1513	Cardinale D.	1957	Emdin M.	182
Al Hebaishi Y.	1414	Carrier L.	871	Erath J.W.	774
Amir O.	1380	Casadei B.	1507	Farmakis D.T.	1311, 1362
Anagnostopoulos C.	184	Celutkiene J.	732	Fairman E.	800
Anker M.	1364, 660	Chioncel O.	1985	Felker G.M.	1447
Anker S.	1275, 1277, 1405, 146, 1495, 151, 28, 74, 766	Chrissoheris M.	148, 151	Filippatos G.	110, 1397, 152, 709, 714, 767
Athanasopoulos G???	731	Chrysohoou C.	79	Fitzsimons D.	743
Ashcroft F.	P1853	Ciccarelli M.	189	Flammer A.	775, 80
Asselbergs F.	818	Cleland J.	1303, 1305, 717, 718, 858	Fontana M.	1395
Assmus B.	769	Coats A.	1405, 141, 143, 1432, 145, 166, 724, 854, 96, 98, 99, 76	Fontes Carvalho R.	1400, 1416
Atar D.	656	Cohen-Solal A.	1302, 1365	Fountoulaki K.	221
Backs J.	226, P1255	Colombo A.	163, 165	Frelat M.	1437
Balligand J.L.	1494, P616	Comin-Colet J.	1343, 1345	Frogoudaki A.	1438
Bar C.	1456	Cooper L.	196, 671, 783	Gaggin H.	122, 125
Basso C.	849	Cosentino F.	228	Galat A.	1437
Bauersachs J.	1500, 210	Cowie M.	116, 120, 121, 136, 140, 1412, 1435, 699, 760, 761, 762	García-Pavía P.	1393, 1394, 737, 778, 781
Bax J.	154, 156, 181	Crespo-Leiro M.G.	1357, 1510	Gargani L.	1496
Beattie J.M.	1319	Damman K.	1407, 848	Ghadri J.R.	1512
Ben Gal T.	1952	Damy T.	134, 135, 1396, 1437, 780, 781	Giamouzis G.	31
Bistola V.	1438	Dangas G.	1944	Giannitsis E.	70
Bodez D.	1437	Daniels M.	869	Giannopoulos G.	225
Boehm M.	697, 811	Davos C.	224	Goette A.	1413
Bondermann D.	3, 4	Dawson D.	192, P1862	Gomez J.E.	798
Bonios M.	211	De Boer R.	100, 105, 1453, 1959	Gonzalez Miqueo A.	1317
Bonnemeier H.	118, 121	Di Somma S.	1445, 857	Grapsa J.	1352
Bozkurt B.	1498, 167, 171, 208			Grassos G.	214
Branch K.	117, 121			Gustafsson F.	1408, 1442, 770, 836
Brugts J.J.	771			Guzik T.	674, P1871
Brunner-La Rocca H.P.	125				



## Speakers & Discussants

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Gwechenberger M.	768	Lazaros G.	734	Mehra M.	782, 786
Hamdani N.	P1255, P1853	Leclercq C.	776, 807	Metra M.	108, 1358, 1406, 174, 814
Hansen T.	1322	Ledwidge M.	1516	Mewton N.	662, 711, 712
Harjola V.P.	794	Levin H.	126, 127, 130	Milicic D.	796
Hasenfuss G.	147, 151, 855	Lim H.S.	1409	Milinkovic I.	1382, 802
Hasin T.	797	Linde C.	1304, 1305, 1410, 142, 145, 753	Mircheva L.	701
Heymans S.	739, 193, 87	Lindenfeld J.	663, 861, 1443	Miro O.	32
Hilfiker-Kleiner D.	1454	Linke W.	1316	Mitrovic V.	1493
Hill J.	1318	Liu P.	98	Morel O.	191
Hill L.	184, 1320, 1984	Logeart D.	123, 125	Moslehi J.	1361
Hoes A.	83	Lopatin Y.	702	Moura B.	851
Hulot J.	88	Lopez Fernandez T.	1300, 1956	Mourilhe Rocha R.	700
Ikonomidis I.	726	Loukidis S.	85	Mueller C.E.	182, 1444, 1982, 864
Jaarsma T.	1321	Lund L.	107, 173, 1383, 1389, 1473, 650, 696, 698, 812	Mullens W.	728, 756, 801, 856
Jankowska E.A.	1312, 73	Lyon A.	183, 1514, 1960, 1983	Naka K.	222, 84
Janssens S.	1378	Maack C.	1517, 227, 66, 68	Neubeck L.	94
Jessup M.	865	Maggioni A.P.	1381	Nielsen J.	809
Kalogeropoulos A.	188	Mahajan V.	1368	Nikolaou M.	1438, 659
Keramida K.	1958	Maisano F.	1360, 150, 151	Noutsias M.	736, 1951
Keren A.	1950	Maisel A.	1446, 185, 799, 860	Obici L.	779, 781
Kitsiou A.	187	Mamas M.	816	O'Connor C.	786
Kober L.	772	Manka R.	673	Omerovic E.	1511, 190
Koehler F.	817, 862, 92	Marelli-Berg F.	672	Oto A.	727
Komajda M.	846	Marinaki S.	867	Packer D.L.	716, 718
Konstantinides S.V.	1353, 1508	Masip J.	172, 86	Packer M.	102
M. Konstam	175	Mavrogeni S.	195	Pang P.	859
Kotecha D.	819	McDonagh T.	1344, 1509, 212, 721	Papadopoulos C.H.	735
Kristen A.	1, 133, 135, 4	McMurray J.	104, 1384, 1387, 1473, 1491, 27, 748, 749, 750, 837	Parissis J.T.	1438, 795
Lainscak M.	112, 1354, 1436, 658, 744, 75	Mebazaa A.	125, 757, 760, 762, 793	Patrianakos A.	667
Lam C.S.	119, 121, 138, 1385, 1390, 1391, 1473, 722, 813			Patsilinakos S.	225
Lambrinou E.	223, 93			Paulus W.	1315, 26
Laoutaris I.	1450			Petrie M.	209, 804
				Pfeffer M.	1309, 844

## Speakers & Discussants

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Piepoli M.F.	178, 215, 66, 68	Schoenrath F.	186	Veltmann C.	773
Pieske B.	1388, 1473, 1492, 216, 652	Seferovic J.	657	Verma S.	137, 759, 760, 762
Pina I.	113, 815	Seferovic P.	1277, 1308, 1947, 654, 751, 784, 847, 95, 98	Vinereanu D.	850
Pinto F.J.	1956, 668, 729	Senni M.	153, 218, 747, 749, 837, P625	Vlachopoulos C.	82
Pinto Y.	1518	Sievert H.	1369, 1405, 1946	Volterrani M.	144, 145, 180, 81
Piotrowicz E.	179	Simantirakis E.	852	Von Bardeleben R.S.	1276, 1277, 149, 151, 1945
Pitt B.	76	Slama M.	131, 132, 135	Von Haehling S.	1310, 1449, 655
Polovina M.	65	Sliwa-Hahnle K.	207	Voors A.	101, 1386, 139, 1473, 863
Polyzogopoulou E.	30	Solomon S.	219, 651	Voudris V.	805
Ponikowski P.	129, 1314, 1403, 1405, 1490, 1940, 661, 723, 763, 765	Sousa Uva M.	72, 803	Windecker S.	806
Pudil R.	1301	Spargias K.	151, 670	Witte K.	1402, 1405, 754
Quarta C.	1515	Starling R.	1954, 1359, 785, 786	Wiviott S.	758, 760, 762
Rapezzi C.	1392, 1393, 1949, 2, 4	Steffel J.	66, 68	Xanthopoulos A.	222
Regitz-Zagrosek V.	1497	Stone G.	165, 712	Xydonas S.	33
Ristic A.	1355, 194	Stromberg A.	1451, 742	Yancy C.	1356, 213
Roffi M.	71	Swaans M.	1404, 1405	Yotov Y.T.	701
Rogers J.	1955	Terzic A.	1376	Zannad F.	111, 1398, 1400, 1401, 845, 90
Rosano G.M.C.	1306, 1489, 229, 78	Testani J.	128	Zuckermann A.	1953
Rosillo Rodriguez S.O.	69	Thum T.	181, 1363, 1981, 89		
		Tocchetti C.G.	1455, P1234		
		Triposkiadis F.	217		
Rossignol P.	114, 1943, 866	Troughton R.	124, 125		
Roy A.	1366	Tschoepe C.	1948, 870, 738, P1255		
Ruhparwar A.	1441	Tsioufis C.	1941		
Ruschitzka F.	106, 109, 186, 1398, 1400, 1986, 665, 715, 720, 745, 749, 810, 837	Tsutsui H.	786		
Sahoo S.	1377	Tziakas D.N.	83		
Saldarriaga C.I.	97	Uchmanowicz I.	1448		
Santini L.	1411	Van Der Meer P.	103, 764		
Savarese G.	67	van der Velden J.	868, P1234		
Schoebel C.	1433	van Veldhuisen D.	100, 105		
		Vavouranakis E.	669		
		Velazquez E.	168, 170		

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
A Rossi A.R.	P1823	Acatrinei C.	P602		P1820, P2175, P304,
Aaberge L.	833	Achinovich A.	P1094		P534, P909, P981
Aakeroy L.	P1527	Achten R.	158	Aharonov A.	P619
Aakhus S.	1927, P1527, P1605	Achury D.M.	P1842	Ahash U.	P1035
Abate E.	P2035, P2140, P2141	Adam Kwa H.K.	P975	Ahluwalia A.	P1854
Abd Rani M.N.H.	P975	Adam R.-D.	1329, P1139, P2244	Ahmad K.	P1554
Abdallah M.	P2105	Adamo L.	64, P637	Ahmad S.	P1238, P1870, P946
Abdelhamid M.	P2109	Adamopoulos S.	1418, 1419, 842,	Ahmed F.	P425
Abdelnabi M.	P1018		P247, P353, P354	Ahmed I.	P946
Abdin A.	1464, P882	Adams D.	1347	Ahmed M.	P1839
Abdou W.	P1793, P879	Adams J.	15	Ahmed R.	P1535
Abdul Rahim A.A.	P487, P493	Adams V.	60	Ahmedov S.H.	P1245
Abdullaev A.X.	P538	Adamyani K.G.	P1582, P558	Ahmeti A.	P1122, P1724, P1781,
Abdullaev S.	P627	Addad F.	P926		P2068
Abdullaev T.	1342	Adela R.	P1256	Ahn H.S.	P290
Abdullaev T.A.	P1005, P1025,	Adlakha K.	P584	Ahn J.	P1580, P2160, P950
	P1029, P1030, P337	Adlam D.A.	P1124, P1789	Ahn J.A.	P1190
Abdymomunov A.K.	P240, P940	Adler Y.	P1155	Ahn S.A.	P350, P957
Abe K.	P1732	Adonina E.V.	P400	Ahn Y.	P1081, P2114, P458, P919
Abecasis J.	P1632	Adragao F.	P1022, P1037	Ahn Y.G.	P2112
Abel Andres Morist A.A.M.	P1918	Adrian Jeronimo Baza A.J.B.	P1191,	Ahn Y.K.	P1827
Abellana R.	P2027		P1198	Ahnadi C.	P252
Abellan-Martinez J.	1333	Aertsen-Van Der Kuip M.S.A.	P1196	Ahyt B.	P328
Abellas Sequeiros M.	P1009,	Afanasiev S.	P1245	Aidemark J.	P1843
	P1127, P1177, P1178, P1674,	Afanasiev S.A.	P1268	Aiglova R.	P2216
	P1700, P1798, P2094, P2239	Afanasiuk O.	P446	Aimo A.1327, 1482, 1939, 47, P1628,	
Abete P.	P2203, P621	Afonso J.	P476		P250, P302, P933
Abete R.	P1089, P974	Agacdiken Agir A.	P1042, P1659,	Ainhua Larumbe A.L.	P1010
Abi Khalil C.	P490		P241	Ait Messaoudene M.S.	P1531
Abid L.	P926	Ageev F.	P1656	Ait-Ali L.	P526
Abid O.	P926	Ageev F.T.	P1686	Aitor Hernandez A.H.	P1098
Abild-Nielsen A.G.	P466	Ageeva K.A.	P1044	Aizawa Y.	P2234
Ablasser K.	1348	Agelaki M.	P1894	Ajayi I.O.	P2069
Ablonczy L.	P589	Agewall S.	P1703, P296	Ajello L.	64
Aboelhoda A.L.Y.	P1695	Aggelopoulou E.	P1162	Akamatsu K.	P1079, P452
Aboleinein M.W.	P2109	Agir A.	P1052	Akberova S.M.	P880
Abou-Moulig V.	1926, P489	Agirbasli M.E.	P523	Akchurin R.	P2129, P2134
Aboumsallem J.P.	P636	Agostinho J.	P2142, P903	Akchurin R.S.	P372
Aboumsallem J.P.	P635	Agostinho J.R.	P1701,	Akchurin R.S.	P599
Abraham D.	P1859, P2199	P1799, P1801, P1819, P1820, P2175,		Akhan O.	P1625
Abraham W.T.	1417, P1593, P1720		P304, P534, P909, P981	Akhilgova Z.M.	P1660
Abramenko A.S.	P1996, P1998	Agoston Vas Coldea L.N.	P1525	Akhmatov Y.R.	P1029, P1030, P337
Abramikas Z.	P2110	Agostoni P.	P1803, P449, P998	Akhmatova F.D.	P2004, P959
Abramov M.L.	P1558	Agostoni P.G.	1326, P1012	Akhmedov S.H.D.	P1268
Abreu L.	P495, P630, P890	Agrogiannis G.	P1856, P1857	Akhyt B.A.	P1539
Abrosimov V.N.	P1044	Aguado C.A.	P1148	Akin Y.U.S.U.F.	P1657
Abukhudair W.A.	P1737	Agudelo A.	685, P1604	Akiyama E.	P461
Abumandour H., G.	P333	Agudelo A.M.	P2026	Ako J.	1481, P908
Abu-Omar Y.	639, P2215	Aguiar C.	1430, 1961, P536, P931	Akre H.	P1527
Abylkanov C.H.	P1830	Aguiar Ricardo I.	P2142, P903	Aksenova T.	P1831, P2104, P2182
Acar E.	P2199		P1701, P1799, P1801, P1819,	Al Barjas M.	1334

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Al Fardan S.	P2045	Al-Jarallah M.	P490	Alunni G.	P1800
Al Jarallah M.	P1776, P1777	Alkasab M.S.K.	P1690	Alvarez Garcia J.	1421
Al Kassam Martinez D.	P271	Alkasab S.M.K.	P1690	Alvarez R.	14, P2237, P955
Al Saikhan L.	P978	Allard C.	P252	Alvarez-Garcia J.	P1174, P1692
Al Suwaidi J.	P1777, P490	Allison T.	1323	Alvaro Fernandez H.	P1150, P1152, P1156
Al Zakwani I.	P1776, P1777	Allocca G.	P305	Alvaro Vicedo Lopez A.V.L.	P1010
Alakbarov R.	P1020	Almaghraby A.	1458, P1018	Alves Guimaraes J.	35
Alakshar T.	P1793	Almahmeed W.	P1776, P1777, P490	Alves P.	P1103, P1175
Alamin A.	P1814	Almeida A.G.	P903	Alvis B.	P2049
Alania Torres E.A.T.	P567	Almeida A.R.	823, P1528, P1883, P457	Alyavi B.A.	P538
Alba A.C.	P2019	Almeida F.	P1684, P1922	Amador Lopez Granados A.L.G.	P359
Albino-Teixeira A.	P476	Almeida I.	200, 822, P1114, P1115, P1796, P494, P495, P630, P890	Amaechi U.	P435
Albu S.	1329, P1815, P2240	Almeida J.	P1522, P914	Amanatova V.A.	P372
Albuquerque C.	1961	Almeida J.P.	P1011, P1103	Amanova K.	P1830
Albuquerque D.C.	P1888, P318	Almeida L.	P494	Amatullah H.	P1254
Albuquerque E.M.	P982	Almeida M.	822, P536	Amemiya K.	P1070, P1101, P462
Albuquerque F.N.	P1888	Almeida Ribeiro M.	P1701, P909	Ameri P.	1475, P2071
Albuquerque I.	P1616, P294, P885	Almeida S.	P1114, P1115, P1540, P1796, P457, P494	Amiguet M.	1976, 683, P1092
Albutti H.M.	P1737	Almenar Bonet L.A.B.	P1147, P1148	Amil A.	P2087
Alcocer M.	P261	Almenar L.	199	Amin H.	P1776, P1777, P490
Alcocer-Gamba M.A.	P2042	Almenar-Bonet L.	P359, P561	Amiorkov M.	P2017
Alcon B.	P261	Almogbel A.S.M.	P1690	Amiya E.	1425
Aldoma-Balasz A.	676	Al-Motarrab A.	P1776, P490	Ammar R.	P1591
Alegria S.	34, 823, P1132, P1540, P1883, P1914, P457	Al-Motarrab A.H.M.E.D.	P1777	Ammirati E.	P1024
Alejandra Restrepo Cordoba A.R.C.	P1098, P1099, P1104	Alnajjar M.M.H.	P1737	Ammirati F.	P1536
Alekseeva Y.	P500	Alonso- Martinez D.	P2061	Amosova K.M.	P2009
Aleksova A.	P1142	Alonso N.	1930, P1571, P295	Amougou Ndongo S.L.	P1717
Aleong G.	P1554	Alonso S.	P2027	Amrami N.	1488, P1167
Aleshcheva G.A.	P523	Alonso Salinas G.	P1009, P1177, P1700, P1798, P2239	An Q.	P468
Aleshin V.	P465	Alonso Salinas G.L.	P1178, P1228, P1674, P1688, P2094, P315	Anadiotis A.	P2123
Alevizaki A.	P1583, P1583, P1705	Alonso Ventura V.	P883	Anam R.K.	P1048
Alexandrescu M.	P1898	Alonso-Briales J.H.	P1128, P1181, P1578, P1620, P1805, P2137	Anand I.	1281
Alexandrova A.	P585	Alonso-Laza C.	P2137	Anand I.S.	P933
Alexandrova S.A.	P1810	Alpysbaeva T.M.	P1035	Anastasiadis Z.	792
Alexanian I.	P1043, P1055	Alrfai A.	P1033, P1087	Anastasiou M.	P281
Aleyan M.	P1031	Al-Sabeq B.	P912	Anaya-Morales C.	P2220
Alfaleh H.	P1776, P1777, P490	Alshamari M.	1341	Andelova N.	P1262
Alfarano M.	P1613, P939	Alsheikh-Ali A.	P490	Andersen H.U.	P964
Alfonso Valle Munoz A.V.M.	P1010	Altamimi H.	P2101	Andersson C.	1932
Algalarrondo V.	1347	Altay H.	P273	Andersson D.C.	P970
Alhabib K.	P1776, P1777, P490	Altenberger J.F.	1290	Ando K.	P1095, P1618, P1742, P2119
Al-Hajje A.	P1672, P1676	Altimir S.	P1598, P295, P941	Ando K.A.	P1526
Al-Hiti H.	P1032	Altynbaeva E.N.	P256	Ando M.	1425
Ali L.	P1849	Alunni Fegatelli D.	P1613, P939	Ando S.	P1732
Ali M.	P2035, P2140, P2141, P385			Andrade A.	P1102, P1194, P1195, P1197, P1564, P1600, P2025, P2246, P319
Ali O.	P1811			Andrade M.J.	P1632
Ali Tatar N.	P1531			Andre F.	P1633
Aljjeva I.N.	1967				
Aliti G.B.	707				

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Andre N.C.	P1820	Aponte L.A.	P1842	Arra C.	788
Andreea C.	P1850	Apostolakis S.	P285	Arranz H.	P1157
Andreasen A.K.	1927, P1605	Appolonova S.A.	P586	Arregui A.	P606
Andreev D.A.	P1203, P2001	Aquaro G.D.	P1137, P526	Arregui Lopez A.	P1210, P1918, P594, P610
Andreev S.	P1638	Aquaro G.D.	1327, 1482, 1939, P1628, P250, P250, P250	Arribas-Ynsaurriaga F.	P369
Andrei C.L.	P1233	Arabia G.	P976	Arroyo Espliguero R.	P1156, P1532
Andreieva I.	P962	Aragon-Jimenez D.	P990	Arroyo Espliguero R.	P1152
Andreini D.	827	Arai H.	1337, P1718, P346, P391, P438	Arroyo Monino D.F.	P1650, P993
Andres A.	P606	Aramburu-Bodas O.	1333	Arshad H.	P2124
Andres Morist A.	P594, P610	Arango-Carrasco A.	P1740	Arslan B.A.Y.R.A.M.	P2143
Andrew Clark A.C.	P967	Araujo A.	P1157	Artemieva M.	P2210, P626, P627
Andrikou I.	P1924	Araujo I.	695, P1022, P1037, P1723, P1739, P1755, P2030, P2057	Artemyeva E.G.	P953
Androulakis A.	P1924	Araujo J.P.	P1741	Artetxe A.	14, P955
Andrys C.	P1078	Araujo P.M.	P1774, P2089, P2091	Artico J.	P1597
Ane Elorriaga Madariaga A.E.M.	P1918	Arbel Y.	1488, P1167, P2191	Artola G.	14, P955
Anfinsen O.G.	P1527	Arbelo E.	1346, 1349, P2151	Artur Paiva J.	P476
Angela Lopez Sainz A.L.S.	P1098	Arcand J.	P1839	Arutyunov A.G.	1340
Angeloff K.	P2235	Arcocha Torres M.F.	P1210	Arutyunov G.P.	1340
Angelopoulos A.	677	Arcopinto M.	689	Aryasova T.	P342, P894, P923
Angeras O.	206, P1096, P1106, P1109, P492	Ardehali A.	P357, P362	Arzamendi Aizpurua D.	1421
Angermann C.E.	P2016	Ardino L.	826, P1694	Asaad N.	P1776, P1777, P490
Angermann C.E.	46	Arduo D.F.	P372	Asakura M.	P1216
Aninos E.	P2190	Arefieva T.I.	P1686	Asali S.	P537
Anker M.S.	P2188	Arenas Ochoa L.F.	P2026	Asanin M.	P1046, P2006, P2103, P2126, P448
Anker M.S.	P1159, P1160, P1161, P2186	Arendt C.T.	P1137	Aseeva Y.U.	P1892
Anker S.D.	1931, P1159, P1160, P1161, P2186	Arens E.	P1182	Asensio Lopez M.C.	P1257, P1259, P1260
Ansari-Ramandi M.M.	P1016	Arfsten H.10, 54, 835, P1243, P937, P949	P1052	Asgari S.	P1765
Antit S.	1461, 824, P1808, P2230	Argan O.	P1052	Ashirov Z.	638
Antoñi E.L.	P1895	Arguello C.V.	P1767	Ashley N.	P566, P568, P569
Antoñi E.-L.	P1909	Ariano C.	P550, P551	Ashmawy M.	P2109
Antoñi L.	P1199	Arias-Jimenez J.L.	1333	Ashyroo Z.H.Z.	P1844
Anton F.P.	P399	Aridi H.	P2167	Asif A.	53, P1753, P472
Anton M.	P2225	Arisheva O.	P2081	Askenas L.	P1843
Antonio P.	P1799, P1801, P304, P534	Ariyachaipanich A.	P1768, P1772, P1775, P2086	Asla C.	P606
Antonio Portoles Hernandez A.P.H.	P1098, P1099, P1104	Ariyachaipanish A.	P2115	Asla Ormazza C.	P1210, P594, P610
Antoniou A.	P1154, P274	Ariza A.	44	Aslam M.	P287, P910
Antonopoulos A.	P281	Arizmendi L.	P312	Aslan .	63
Antonova A.M.	1332	Arizon Del Prado J.M.	1928, P561	Aspromonte N.	P520
Antunes H.200, P495, P630, P890		Arman Y.	63	Assabiny A.	P361
Anuntasainont M.	P1768, P1772, P1775, P2086, P2115	Armenis I.	1418, 1419, 842	Asselbergs F.W.	1424, 1476, 1934, P2184, P521, P891, P942
Aoudia Y.	P1531	Armstrong C.	P581	Assmus B.	P1534, P242
Aoyanagi H.	P947	Arnold J.	P1167	Atabegashvili M.R.	682
Aoyanagi H.A.	P952	Arnold J.R.	59, P259	Atabekov T.	P1987
Apetrei E.	P1815	Arnold S.	P1728	Atallah B.	P2045
		Aronson D.A.	45	Atamanuk A.	P1825
		Arosi I.	P1765	Atar D.	P1703, P296
				Ateba N.	P1717

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Ates B.U.R.H.A.N.	P1240	Baard J.A.	P898	Balderas Munoz K.	P1538, P314, P331, P340
Atesler S.	P1778, P2117	Babaeva A.R.	P888	Balderas-Munoz K.	P1065, P1719, P2072, P416, P419, P424, P428
Athanasiadi E.	688, P1715	Babaeva L.	680, P1123, P1591	Baldetti L.	P1117
Athanasiou A.	688	Babatseva Vagena I.	P1924	Baldi Caproriti L.	1475
Athanassiadou A.M.	P1856, P1857	Babayigit E.	P1056, P2077	Baldia P.	1464
Athanassiadou P.	P1856, P1857	Babich P.	P326	Baldrige A.	P1622
Athanassopoulos G.	P1856, P1857	Babu A.	P1076	Baldus S.	829
Athanassopoulos P.	1351	Babu-Narayan S.V.	P1988	Balestrieri G.	P270
Atroshchenko E.S.	P377	Bachus E.	49, P2113, P921	Balint B.A.	P1889
Attawar S.	P380	Backs J.	P1270	Balkute D.	P1899, P600
Auensen A.	P1806	Badaev K.	P2146	Ball J.	P1754
Augostini R.	1417	Badagliacca R.	P449	Ballaben A.	P1597
Augustin J.A.	P1207	Badawy A.A.	P1737	Ballegooijen Van A.J.	56
Augusto J.	P2096	Badawy A.A.A.A.	P1737	Balligand J.-L.	P1885
Aurrekoetxea Bajeneta G.	P1210, P594, P610	Badelita S.	P1898, P2244	Balogh Z.	P234
Aurrekoetxea G.	P606	Bader F.	838, P2045	Balsam P.	P911, P968
Ausen K.	P1527	Bader I.	P1758	Baltag G.D.	P1233
Austin R.	P1553	Badila E.	P532	Baluta M.M.	P1133, P2144
Avagliano C.	P621	Badr Eslam R.	P1231	Bamadhaj N.S.	1431
Avdeev S.N.	P436	Badran H.	P1018, P1783, P1793, P1814, P1816, P2154, P374, P879, P956	Bamias A.	P281
Avdeykin S.N.	P597	Badran H.M.	P2153	Banach M.	P2176
Avdoshina S.	P1059, P2121	Bae D.-H.	P1108, P1610, P483	Banai S.	832
Averina I.I.	P576	Bae E.J.	P1224	Banasiak W.	P1143, P1812, P2058, P2090, P437, P454
Avgeropoulos G.	P1162	Bae M.H.	P1073, P1769, P2098	Banaszewski M.	P1787
Avgeropoulou C.	P1924	Bae A.E.	P499	Bandeira M.L.S.	P1747
Avila-Alonso P.	P235	Baez L.	P510	Banerjee S.	P1247
Avraham B.	P1038	Bagmanova N.	P1123	Banerjee S.K.	P1256
Avram A.	P1233	Bahuleyan C.G.	P484	Bania J.	P1874
Avram N.	P1233	Bai X.	P488	Bansal S.	P1556
Avtandilov A.G.	P1660	Baigalkanova A.I.	P1035, P529	Banushi A.	P1227, P2231
Avyasov A.A.	P1892	Bailey K.	P253	Bao W.	1284
Aw T.	P363	Bair A.	640	Baoqing L.	12
Aw T.C.	P1091	Bairros P.M.N.	P1207	Baptista R.P1011, P1103, P1175, P914	
Awadallah H.	P374	Bajenaru I.	P460	Barakat M.F.	P1630
Awoyemi A.	790	Bajraktari G.	P1122, P1724, P1781, P2068	Barandiaran Aizpurua A.	1936, 56, P338
Aydin Yoldemir	63	Bakker S.J.L.	1937, P540, P927	Baranovich V.P1784, P1786, P1788, P2135, P2168	
Ayesta A.	P913	Bakosis G.	P1043, P1055	Baranowski R.	P1202
Azad R.E.U.B.E.N.	P1212	Balaguer Recena J.	P1150, P1156	Barbagallo R.	P332
Azcona A.	14, P1017, P955	Balaguer Recena J.L.	P1152, P1532	Barbarash O.	P1533, P1794
Azevedo J.	P1102, P1564, P2025, P319	Balahura A.M.	P532	Barbarash O.L.	P439, P507
Azevedo L.	686	Balan H.	P1584, P1836	Barbati G.	1483, P1142, P1597, P2028, P936
Azevedo O.	678	Balanica S.	P1199	Barbato E.	P234
Azibani F.	P2149, P898	Balashova M.	P581	Barberis V.	706
Aziman M.H.	P975	Balatskiy A.	P1126, P1134	Barbetseas J.	688, P1715
Azizi M.	P988	Balbuena-Madera M.	P1911, P1912, P1917, P2220, P445, P990		
Azizov V.	P1631, P1730	Baldasseroni S.	P1014, P917, P979, P984		
Azuma K.	P1216				
Azzam A.	P1749				
Baah F.O.	P1841				

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Barbieri A.	788	Batar S.	P987	Belenkov Y.U.	P1661
Barbisan J.N.	P325, P960	Batista F.	P2096	Belenkov Y.U.N.	P1880
Barbu M.L.	1462, P1204	Battistoni I.	P943	Belenkov Y.U.N.	P586
Bardas A.	P2225	Bauersachs J.	1926, P1735, P489,	Beles M.	P258, P497
Barge-Caballero E.	P359		P583	Beleslin B.	P1155
Barilla F.	P1125, P2079	Baugh J.	1466	Belgrano M.	P1142, P936
Barison A.	1327, 1482, 1939, P1137,	Baustista Paves A.	P401	Belhassen M.	P2108
	P1628, P250, P250, P250, P526	Bax J.	1931	Belin A.	P2180
Barkhudaryan A.	P613	Bayam E.	P514	Belke D.	8
Barmenkova Y.	P344	Bayard G.	P1698	Bell J.D.	P617
Barmpagianni A.	P1715	Bayarsaikhan M.	P2081, P464,	Bellakhal S.	824
Barnett O.	P1074, P471		P465, P496	Bellanti R.	P1543
Baroncini A.C.	P1014, P917, P979,	Bayarsaikhan M.	P1731	Bellavia D.	64
	P984	Baybekov I.M.	P292	Bellersen L.	P1196
Barradas-Pires A.	P1811	Baydemir C.	P1042, P1659	Bello S.	P1242
Barreira De Sousa G.	1965	Bayes-Genis A.	1930, P1571,	Bellver A.	P1589
Barrero C.	P1100	P1573, P1598, P1716, P1722, P1847,		Belohlavek J.	1284, 694, P1563
Barreto M.V.	P1743, P1780	P1848, P295, P302, P933, P941		Belskaya M.I.	P429
Barrett M.	P1176, P557	Baymukanov A.	P1592	Beltran Herrera C.	P1655, P992
Barros N.	P1761, P480	Bazan N.	P2034, P2052	Ben Gal T.	P1038
Barros-Filho A.C.L.	1468	Bazan Y.	P1821	Ben Halima N.E..J.A.H.	P2105
Barry S.	P1617	Bazarbachi A.	1459, P1209, P2167	Ben Hlima M.	P926
Barry T.	703	Bazargani N.	P1776	Ben Kilani M.	1461
Barsotti A.	P1100	Bazmpani M.A.	P588	Bendz C.H.	P1527
Bart V.	P1136	Beauchemin C.	P1561	Benesova K.	P1140, P2122
Barta B.A.	P1249, P633	Becker C.	P1182, P1183, P1184,	Bengel F.M.	1468, P1877
Barta J.	P1241, P1586		P1553, P1706	Bengel P.	P1238, P1870
Bartfay S.	P1145	Bedanova H.	1429, P383	Benichou M.	P1778, P2117
Bartfay S.E.	P293	Bedoya D.	P1764	Benit E.	158
Barthelmes J.	P1588	Bee Y.M.	P537	Benitez Peyrat J.	P1150, P1156
Bartholomay E.	P1575, P2038	Beelen K.J.	P1170	Benitez Peyrat J.L.	P1152
Bartko P.	835, P2193	Befacchia G.	P402	Benke P.J.	P581
Bartko P.E.	P937	Beggs S.A.S.	P1594, P254	Benkouar R.	P1531
Bartko P.E.	10, 54, P1243, P949	Begrambekova J.L.	P400	Bennett H.	P951
Barton A.K.	P1594	Behfar A.	13	Benson M.D.	P560
Barton J.	P991, P996	Behounek M.	P2206	Benyoussef S.	1461, 824, P1808,
Bartos D.	P1060, P532	Beikmohammadi S.	P1016		P2230
Bartunek J.	P258, P497	Beitnes J.O.	P1806	Benzeroual D.	P2087
Baruah R.	P2092	Bejko E.	P1227	Beom J.W.	P1642, P2097
Barutcu A.	P327	Bekar L.	P1153, P2172	Bereza N.V.	P2009
Barysevich A.	43	Bekbossynov S.	638	Berezin A.A.	P1551, P343
Barysiene J.	P1900	Bekbossynova M.	638	Berezin A.E.	P1551, P1795, P343
Bascompte-Claret R.	676	Bekbulatova R.S.	P1025, P1030	Berezina A.	1480
Basso C.	1470	Bekenayeva K.S.	P1061	Berezovskaya N.	P1019
Bastien N.	P1561, P907	Bekfani T.	1339, P1265, P352	Berge R.K.	790
Bastos C.	P1755	Bekhite Elsaied M.	P1265	Bergerone S.	P2196
Batalli A.	P1122, P1724, P1781,	Beladan C.	P1828, P2163	Bergerot C.	P1031
	P2068	Belarte Tornero L.C.	P1221	Berghdal E.	1938
Batalov R.	P1987	Belarte-Tornero L.C.	52	Bergin P.	P1758
Batalov R.E.	P1069, P255	Beldekos D.	P1163	Bergler-Klein J.	P1231
Batar F.G.	P987	Belenkov Y.	P2165	Bergmann A.	49, P2113

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Bergmann A.K.	P1885	Bijari M.	P1606	Bocheva Y.	P1651
Beringuilho M.	P2096	Bijedic A.	P1054	Bockeria O.L.	P576
Beringuilho M.B.	P1826,	Bijedic I.	P1054	Boczan J.	P1586
	P530, P531	Bijlsma R.M.	P2184	Bodalski R.	P1202
Berisha-Muharremi V.	P1724,	Biju R.	P484	Bodanese L.C.	P1575
	P2068	Bikakis I.	P1129	Bode D.	P893
Berkinbayev S.	1342	Bilchenko A.	1465	Bodez D.	1925
Berkovich O.A.	P503	Bildirici U.	P1659	Bodi B.	P1249, P1266, P1878
Berliner D.	1926, P489	Billinska M.	P1202	Bodisz G.	P336
Bermingham M.	P2034, P2052	Bilinska Z.T.	P1202	Boehm M.	1286, P2037, P450
Bernard L.	P450	Bilonko O.	P446	Boehmer J.B.	203
Bernardi R.	640	Binaghi G.	P1225, P402	Boehmer J.P.	P1535, P468
Bernazzali S.	P365	Binder J.	1348	Boersma E.	P1170
Berndt A.	P510	Binder T.	835	Boettcher M.-F.	P1182, P1183, P1184,
Bernt A.	6	Binno S.	160, P308		P1706
Berrino L.	P1869, P2213, P634	Binova J.	P2155	Bogdanov A.R.	P1572, P892
Bertaina M.	P1800	Binyakovskiy R.	P2002	Bogyi P.	P1602, P591
Bertero E.B.	P1872	Biolo A.	707	Bohm M.	1278
Bertero G.	1475	Birnie D.	P376	Bohorquez W.B.	P1842
Besche N.	P1184, P1706	Birolo G.	P2196	Bohov P.	790
Beser C.	19	Birtolo L.I.	P1635	Boi A.	P1225
Besler C.	60, 830, 831, P1802,	Bisenius F.	P1026	Bojarczuk J.	P2058
	P2008, P260	Bistola V.	P1043, P1055	Bojic M.	P386
Besmalinovich E.	P1823, P1824,	Bitca A.	P1997	Bokhari S.	P518
	P528	Bitea I.	P987	Bolam H.	P2005
Bessa J.	P476	Bittencourt M.I.	P1747	Boldo M.	P1573, P1722, P295, P941
Besser M.	P1214	Bitunjac I.	P410	Boldueva S.	P1211, P2232
Bestetti R.	P525	Bjjerre M.	P275	Bollano E.	P1145, P293, P447
Bettencourt P.	P1616, P1741, P294,	Blagova O.V.	1967, P1807, P2150,	Bomer N.	789, P1235
	P556, P885		P519	Bonadies D.	P1013
Beulens J.W.J.	56	Blagova O.V.	P1141, P1810, P251,	Bonaduce D.	P2203, P621
Beusekamp J.C.	201		P407	Bonastre-Thio M.	P1658, P1671
Beussink-Nelson L.	1936	Blaine C.	690	Bondari S.	680, P465
Beutner F.	19	Blake N.	61	Bonderman D.	P242
Beyhoff N.	16, P2198	Blanchard A.	P988	Bondermann D.	P1534
Bezard L.	1925	Blanco Nuez M.	P1015, P994	Boneva T.	P612
Bezdah L.	P926	Blasco Peiro T.	P883	Boneva T.S.	P2233
Bezrodniy A.	P1521, P2082	Blasco-Peiro T.	P359, P561	Bongiovanni C.	P619
Bezrodny A.B.	P2009	Blazakis G.	P1058	Bonios M.	P247, P353
Bhagra S.	P1214, P2215, P286	Blazek S.	P2008	Bonios M.J.	1418, 1419, 842
Bhatti P.	P1630	Blazquez Bermejo Z.	P369, 52	Bonomi A.	P449
Bian A.	P1713	Ble Gimeno M.	P1221	Bonou M.	688, P1715
Bianchi V.	P1271, P1536, P1537	Blum S.	P262	Boortz-Marx R.L.	642
Bianco E.	1483	Blumer V.	P364	Borbas J.	P1882, P2157, P297,
Biccire F.	P1125	Blumrich A.	16, P2198		P579
Bidel Z.	686	Boal F.B.	P2194	Borbely A.	P2157, P579
Biegus J.	P2090, P454	Bobbio E.	P1145, P293	Bordejevic A.	P279, P440
Biener M.	P1116	Bobbo M.	1483	Borer J.S.	1286
Bienertova-Vasku J.	1429	Bobrie G.	P988	Boretto P.	P2196
Bigalke B.	P2035, P2140	Bobylev A.A.	P436	Borger M.	830, 831, P1802
Biglia C.	P2100	Boccella N.	P2203	Borges S.	35, P1809, P1813, P2229



# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Borges S.C.	P1088, P2131	Brady V.	P2051	Brunner H.G.	1980
Boric S.	P392	Braga P.	P1522	Brunner-La Rocca H.P.	1288, 1936,
Borisov A.	P1656	Bramanti F.	P1733		56, P1664, P302,
Borisov E.	P585	Brandao L.	P1540, P457		P338, P933
Borisov E.N.	P2029	Brandl J.	P1026	Bruno K.	13, 792
Borisovskaya S.V.	P597	Braneia H.	P279, P440	Bruzzese D.	P243
Borlaug B.	P2064	Brann A.	P945	Brylev L.V.	P597
Borlepawar A.	6	Braun D.	830, 831	Bsharat H.A.	P1892
Boros A.M.	1474, 834	Bravo Marques R.	P552, P553	Budnik M.	P968
Boros M.	P2225	Bravo Martinez I.	P1210, P594,	Buelva-Martin A.	P1738
Borovac J.A.	P1075, P1080, P473		P606, P610	Buettner P.	60
Borrelli C.	P1733, P2055, P443,	Bredesen N.	P1527	Buffa M.	1330
	P930	Breidhardt T.	47	Bugga P.	P1247
Borrello B.	160	Breinbauer R.	16	Buijsrogge M.P.	1424
Borsanyi T.	P1066, P1570, P1602,	Breitenstein A.	P412	Buitrago A.F.	P1923
	P591, P971	Brennan A.	P983	Buitrago Sandoval A.F.	P1562
Bortsova M.	P367	Brennan P.F.	1325	Bujanda Morun P.	P559
Bortzova M.A.	P395	Brenner S.	46	Bulbanat B.	P1776, P1777, P490
Bosch-Gaya A.	676	Bret-Zurita M.	P235	Bulugahapitiya S.	P2051
Boschi S.	P1697	Breunig M.	P2016, P264, P265,	Bumeister V.	P1261
Boscutti A.	64		P268, P269	Burazor I.	P1155
Bosman L.P.	1476	Brezeanu R.	P1233	Burch A.	P242
Bossone E.	689	Briatore A.	P1589	Burch A.E.	P1534
Botker H.E.	P1629, P275	Briere J.B.	P2108	Burdeniuk C.	703
Bots M.L.	P1607, P891	Briongos S.	P1655, P992	Burducea A.	P1199
Bots S.H.	P891	Briosa A.	34, 823, P1132, P1540,	Buriak R.	P2036
Botta C.	P1825		P1883, P1914, P457	Burillo Gomez F.	P401
Botti G.	788	Brito D.	P1701, P2175, P304, P909,	Burkhardt R.	19, 60
Bottini F.	P1100		P981	Burko N.	P342, P344, P923
Bouali A.	1324	Brito J.	822	Burlakova A.	P2104
Bouasria K.	P1531	Briton O.	P2149, P898	Burneikaite G.	P600
Boudrifa A.	P1531	Brizida L.	822	Bursacovschi D.	1331
Bougouin W.	1925	Broa A.L.	P1883	Bushkevich M.	P1094
Bouhouita Y.	P1531	Broch K.	1927, 790, 833, P1605	Bustos D.	P1821
Bourmpoulis N.	P1894	Brodsky D.	P1019	Butish L.	P1886, P1887
Bourn D.W.	P2224	Bromage D.	P1630, P1689	Butt J.H.	1932
Boussabeh I.	1461, 824, P1808,	Bronis K.	1487	Buttigieg L.L.	P1649, P2148
	P2230	Brooks G.	1273	Butylin D.	1284, 694
Bouthouri A.	P1808	Brophy C.	P2049	Buzdugan E.C.	P506
Boutouyrie P.	P988	Brosen K.	1280	Buzoianu A.D.	P336
Bouwer N.	P1170	Brossa Loidi V.	1421	Buzoiu M.	P1204
Bova M.	787	Brossa V.	P1174, P1692	Bychowski J.	P1559
Bover Freire R.	P1045, P1576,	Brown A.J.	639	Bykova A.A.	P1203
	P1581, P1711	Brown J.	1977	Byrne S.	P2034, P2052
Bover R.	P913	Brueckmann M.	1278	Bytyci I.	P1724, P2068
Boyadjieva M.	P1651	Brugada J.	1346, 1349	Byun Y.S.	P1138, P548
Bozbeyoglu E.	P291	Brugada R.	1346, 1349, P2151	Byun Y.S.B.	P1524
Bozic B.	P2078	Brugts J.J.	1288, P1607, P1664	C Musante C.M.	P1823
Bozic J.	P1075, P1080, P473	Brum I.D.	P1207	Cabac-Pogorevici I.	P1920,
Bracamonte-Baran W.	841	Brunborg C.	P1806		P2076
Bradaric A.	P473	Brunelli C.	1475, P1608, P2071	Caballero Borrego J.	P401

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Caballero Dorta E.	693, P1015, P559, P994	Candeias Faria D.	P2096	Carrasco-Chinchilla F.	P1128, P1578
Caballero Jambrina I.	P883	Canepa M.	1475, P1608, P2071	Carreira M.	P1741
Caballero-Valderrama M.R.	P370	Cannata' A.	P1142	Carrilho-Ferreira P.	P1799, P1801
Cabello Montoya F.	P496	Cannata A.C.	P1597	Carrington M.J.	P1754
Cabiati M.	P1271, P1854	Cannata F.	826, P1694, P509	Carruthers S.	P1765
Caceres L.	P1100	Cano De Luque C.	P2102	Carr-White G.	197
Cachero M.	P1571, P1848	Canoy D.	686	Cartuyvels R.	158
Caetano F.S.	P1193	Cantatore S.	P1588	Carubelli V.	1336
Cafka M.	P2171	Cantero-Colin R.	P2042	Carucci L.	787
Cai X.	P1149, P2070	Cao D.	P509	Caruso D.	P335
Calaf-Vall I.	676	Cao M.	P1535	Carvajal J.	P277
Calangea I.	P1233	Cao X.	P999	Carvalho A.F.	P1852
Calcagno S.	P1613	Capar G.	63	Carvalho E.E.V.	P1877
Calder P.	P1273	Caples N.	690	Carvalho L.	P1822
Calero E.	P2027	Capodanno D.	P2039	Carvalho M.	1460, P924
Calignano A.	P621	Cappa V.	1336	Carvalho P.	P2120
Calmac L.	P1217	Cappelleri A.	P1694	Carvalho R.	1460
Calo' L.	P1536, P1537	Cappetta D.	P1869, P2213, P634	Carvalho R.I.T.A.R.	1460, P924
Caloian B.	P1713, P432	Caprini R.	P1823, P1824, P528	Carvalho S.	35
Calonaci G.	P365	Capucci A.	P1536, P1537	Carvalho T.F.	P1747
Calqueiro J.	P1632	Caramori P.R.	P1575	Carvalho W.C.	P1743
Calvi V.	P2039	Caraus A.	P1997	Casademunt M.	P2027
Calvo Elias A.	P2102	Caraus M.	P1997	Casajuana E.	P2027
Calvo Manuel E.	P2102	Caraush A.P.	P901	Casal J.	P2151
Calvo-Llorente B.	P1681	Caraush M.P.	P901	Casella I.	1330
Calza S.	1336	Caravaca Perez P.	P993	Caspi O.	45
Camacho Godoy C.	P559	Caravaca-Perez P.	P369	Cassidy L.	P415
Camazzola F.	P318	Carbone V.	P957	Castagno D.	P298
Cambronero Cortinas E.	P235	Cardells I.	683	Castanon E.	P1168
Cameli M.	P365	Cardenas Y.	P1923	Castel A.	P1230, P2217
Cammardella A.	P413	Cardenas Leon A.	693, P1015	Castel Lavilla M.A.	P434
Campana P.	P243	Cardillo I.	P1125	Castel M.A.	P2151, P598
Campari M.	P1537	Cardoso A.F.	P1922	Castelein T.	P258, P497
Campbell G.L.	P1687, P2048	Cardoso F.	678, P1684	Castella M.	P2151
Campbell J.	P1758	Cardoso J.S.	P1749	Castellano Alcalde M.	P1210
Campbell P.	P1759	Cardoso P.C.	P1207	Castellanos Alcalde M.	P610
Campbell R.	204	Carey M.	690	Castiello A.	P976
Campelo M.	P1774, P2089, P2091	Carlos Macaya Miguel C.M.M.	P1191, P1198	Castiello T.	50
Campiglia P.	1472	Carlos Nicolas Perez C.N.P.	P1191, P1198	Castiglione V.	1482, 1939, P250, P250, P250
Campodonico J.	1326	Carlson B.	P1841	Castillo Costa Y.	P1100
Campos J.	P1755	Carlsson M.	P1232	Castillo Orive M.	P1177, P1178, P1674
Campos L.	695, P1022, P1037, P1723, P1739, P2030, P2057	Carmagnola I.	P1854	Castillo Sandoval A.	P1150, P1152, P1532
Campos M.C.	P1743	Carneiro R.M.	P1747	Castillo-Aguilar L.F.	P1740
Campuzano O.	1346, 1349, P2151	Carneiro-Ramos M.S.	P2212	Castro A.	P1157
Campuzano Pineda L.	P985	Caro Codon J.	P544	Castro Fernandez A.	P993
Canada M.	P1632	Carpenter V.	P1543	Castro Fernandez A.J.	P1650
Canani R.B.	P621	Carpinteiro A.	1933	Castro M.	P536
Canas Da Silva P.	P1799, P1801, P2142	Carr J.	199	Castro M.F.L.M.	P2044
		Carrasco Avalos F.	P359		

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Castro P.F.	P313	Chait R.	P1033, P1087	Chernova A.	P1837, P1838, P1858, P563, P571
Castro S.L.	P1749	Chakova N.	P887	Cherpak B.	P2243
Castro-Martinez G.	P312	Chakrabarti A.	694	Cherubini A.	P2028
Catana A.	P1233	Chakraborty P.	P1256	Cheshire C.	639
Catapano G.	P443	Chakraborty R.	P584	Chesnikova A.	1342
Catarino P.	639, P2215	Chaloupka A.	1484, P2155	Chesnikova A.I.	P1053
Cattadori G.	P449	Chambers V.	1487	Chevalier P.	P1873
Cauquil C.	1347	Chan D.C.S.	59, P259	Chew H.S. J.	P1007, P999
Cavalli S.	P1869	Chan H.	P1027	Chiang C.Y.	P1643
Cavalotti C.	P1089	Chan L.	P381	Chiarella F.	1475, P2071
Cavusoglu Y.	P1056, P2077	Chand R.	P357, P362	Chiarito M.	826, P509
Ceccarelli A.	P1697	Chandavimol M.	P915	Chikamori T.C.	P2075
Ceglarek U.	19	Chandramouli C.	P537	Chilcott J.	P978
Cejas C.	P2100	Chang A.	P357, P362	Chilidou D.	1418
Cejka V.	P2016, P264, P265, P268, P269	Chang A.Y.	P1673	Chilingaryan A.L.	P558
Cejudo Del Campo L.	P1166	Chang H.-Y.	P1047, P1653, P1669, P1680	Chin A.	P2149
Celeghin R.	1470	Chang K.	P2114, P919	Chin J.	P1114, P1115, P1796, P494
Celentani D.	P2196	Chang W.T.	P902	Chinchurreta Capote P.A.	P552, P553
Celeste F.	827	Chanona A.	P312	Chioffi M.	P1089, P974
Celik A.	P316	Chaparro Munoz M.	P1650, P993	Chioncel C.	P1828
Celikyurt U.	P241	Chaparro S.	P364	Chioncel O.	P1199, P1895, P1909, P2163
Celutkienė J.	P1899, P2110, P2179, P474	Chappellaz M.	8	Chioncel V.	P1233
Cenni E.	P1608	Charask A.	P1100	Chiorescu R.M.	P399
Centa M.	P305	Charrabi A.	P1873	Chitroceanu A.M.	1962, P2245
Centorbi C.S.	P1229	Chashkina M.I.	P1203	Chivulescu M.	P1139
Cepeda-Rodrigo J.M.	1333	Chasnoyt A.	P1548	Chizhov P.	P1040
Cequier A.	P277	Chattopadhyay R.	P1543	Chlouverakis G.	P876
Cerasuolo F.	P2203	Chatzianastasiou S.	1418	Chng K.	P1027
Ceratti R.N.	P1207	Chaudhary M.	P1556	Cho A.	10, 54, P1243, P937, P949
Cerlinskaite K.	P2110, P474	Chauhan S.	P1113, P1603	Cho D.H.	1477, P2185
Cernic Suligoj N.	P2018	Chaves V.	P1616, P294, P885	Cho E.J.	P1827
Cernic-Suligoj N.	P1226	Chavez-Mendoza A.	P1773	Cho G.Y.	641, P1111, P233, P977
Cerrai C.	P308	Chbini K.	P2087	Cho H.J.	51, P1110, P2116
Cervenka L.	P2206	Chen C.	1292	Cho J.Y.	P1081, P458
Cesini S.	P1214, P2215, P286	Chen F.Y.	P379, P382	Cho J.G.	P1081, P458
Cesnauskaite A.	P2110	Chen H.	P542	Cho J.H.	P2116
Cha K.S.	P1580, P2160, P2195, P950	Chen K.	202, P1033, P1087	Cho J.S.	P1118, P290, P608
Cha M.J.	P248	Chen W.	P1890	Cho J.Y.	P918
Chacko L.	1977	Chen Z.C.	P1750, P902	Cho K.I.	P1623, P423
Chacon C.	P1158, P2189	Cheng A.S.H.	59, P259	Cho M.C.	51
Chacon R.	P1158, P2189	Cheng C.C.	P1120	Cho M.-C.	P1108, P1610, P483
Chadar M.	P584	Cheng K.F.	P1716, P2073, P2074	Cho Y.	P1769, P2098
Chae B.J.	1283	Chenik S.	P2230	Cho Y.G.	P1073
Chae J.K.	P1637, P2097	Chentir M.T.	P1531, P1531	Cho Y.H.	P1623, P366, P423
Chae S.C.	P1073, P1769, P2097, P2098	Chepurnoy A.	P1784, P1786, P1788, P2158	Chobanov A.	P2017
Chaidaroglou A.	1418	Cherfan A.	P2045	Chocron Benbunan C.	P2102
Chair S.Y.	P1007, P999	Cherkashin D.I.	P372	Choe J.C.	P1580, P2160, P950
		Chermensky G.V.	P1996, P1998	Choi C.U.	P1151
		Cherniaeva K.I.	P2009		

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Choi D.J.	P1590, P1827, P2097	Church H.	P2043	Codina M.	P1210
Choi E.K.	P248	Chytra K.	1971	Coelho L.	P2059
Choi H.	P1673	Chyzevska O.	P1817, P2243	Cohen G.	828
Choi H.H.	41, P2211	Ciardelli G.	P1854	Cohen-Solal A.	P461
Choi J.	P366	Ciccarelli M.	1472, 787, P1013,	Cohn J.N.	P302, P933
Choi J.C.	P2195, P322		P1866, P2203, P624	Cojan-Minzat B.	P1525
Choi J.H.	P1580, P1623, P1642,	Cierzan B.S.	P463	Cole G.	P2046
	P2097, P2160, P2195,	Ciesielski A.	P1893	Cole W.C.	8
	P423, P950	Cieslieslski A.	P1541	Collado Lledo E.	44
Choi J.-H.	P322, P397	Cigarroa-Lopez A.	P312	Collier P.	1466
Choi J.O.	P406, P524	Cigarroa-Lopez J.A.	P1773, P2042	Collier T.	P257, P425
Choi J.W.	P1138	Cihakova D.	841	Collins G.	P564
Choi K.C.	P1007	Cikes M.	P387	Collins S.A.R.A.	P1212
Choi S.W.	1457, P1171	Cimiotti D.	791	Colombo A.	P1117
Chomova I.A.	1463	Cinca-Cuscullola J.	P965	Colombo P.C.	P1757
Chong N.W.	P617	Cinotti R.	P461	Colomer-Asenjo I.	P1658, P1671
Choo K.S.	P958	Ciobanu N.	P1997	Comina M.	P1608
Chopra V.	P537	Ciomag R.	1462, P1204, P2000,	Comin-Colet J.	1290
Chorro F.J.	1976, P1589		P460	Comisso M.	840, P413
Chou M.-T.	P1643	Cipolletta L.	P1536, P1537	Comsa H.	P1713, P432
Chousou P.A.	P1543	Cipriani M.G.	P1024	Conangla L.	P941
Chovanec M.	P405	Cirasa A.	P2039	Conceicao G.	P1274
Chovanec N.	P596	Ciric J.	P541	Concepcion Ramirez Ramos C.R.R.	
Chow B.J.	P232	Cirio E.M.	P1225		P1191, P1198
Chrisant M.R.	P581	Ciro' A.	P1089	Conde Martel A.	P1601
Christa M.	P2016	Cirstoiu M.	P1641	Conde Martel D.R.	P1599
Christen L.	6	Citro R.	P1013	Conde-Martel A.	1333
Christensen G.	P1253	Cittadini A.	689	Condorelli G.	826, P1694, P509
Christensen T.E.	P355	Cittar M.	P1142, P936	Congia D.	P1225
Christou A.	P1757, P1894	Ciudin R.	P2244	Conijn S.C.	P1872
Chroub-Papavaïou N.A.	P929	Ciuffreda L.P.	P2213, P634	Connolly N.P.	P2083
Chroub-Papavaïou N.A.	P2014,	Claes G.R.F.	1980	Conrotto F.	P1800
	P2024	Claggett B.	204	Constatinos D.	P1155
Chrysohoou C.	P2080	Claire-Guzman S.R.	P1773	Conte E.	827
Chrysos G.	P1163	Claridge S.	197	Conte L.	P1757
Chu E.C.	P1750	Clark A.L.	1973, 1974, P1626,	Conte M.	P243
Chu P.	P1004		P1703, P288, P296, P425	Contento C.	P413
Chu P.H.	P1666	Clark R.A.	703	Contreras A.	P312
Chudiak A.	P1006	Cleland J.	P1648, P2036	Contreras E.	P1767
Chueva K.	38, P2238	Cleland J.G.	P288	Cook S.A.	P1648
Chun K.	1968, P1567, P986	Cleland J.G.F.	199, P1617, P1626,	Cooper Jr L.T.	13
Chung E.	1423		P1703, P296, P425	Copland E.	686
Chung H.	P1138, P1524, P2173,	Clemenza F.	64	Copoeru A.D.	P1530
	P546, P548	Clemmensen T.S.	P1629	Coppini R.	P634
Chung W.B.	1283	Cliffe P.	P332	Coppola C.	788
Chung W.J.	P1827	Coats A.J.	P2224	Corazza F.	P1697
Chung W.-J.	P1673	Cobo Marcos M.	P1098, P1099,	Corda M.	P1225, P402, P593
Chuquiure E.J.J.	P1911, P1912,		P1104	Corda S.	P306
	P1917, P2220,	Coburn A.	642	Cordoba M.	P1821
	P445, P990	Coburn J.	1325	Coric V.	P1864
Chuquiure-Gil M.	P990	Cocco D.	P1225, P1229, P593	Coriu D.	P2225, P2244

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Corona Barrio C.	P552, P553	Crijns H.J. G.	P1989	Dakova S.	P1222
Coronel M.L.	P1821, P1825	Crijns H.J.G.M.	P1544	Dalla Cia A.	1326
Corra U.	P449	Crimi G.	P1800	Dallegrì F.	P1608
Corrada E.	826	Crisan S.	P1545	Dalmau R.	P1157
Corrao G.	P2028	Cristea O.	P1530	Dalon F.	P2108
Correale M.	P308	Cristian V.H.	P1530	Dalzell J.	P1594
Correia E.	P495, P630, P890	Cristina S.	P982	D'amato A.	P1613, P939
Correia J.	200, P924	Crosera L.	P1142, P936	D'amico M.	P1800
Correia S.I.	P1822	Cruz I.	34, 823, P1132, P1528,	Damman K.	1291, 1420, 55, P266
Corrigan R.	690		P1883	Damy T.	1925, P2108, P518
Cortes Cortes F.J.	P993	Cruz R.R.	P381	Dan G.A.	P481
Cortes F.J.	P1650	Csanadi Z.	17, P1241, P1586	Danchenko P.	P1817, P2243
Cortez Quiroga G.	P1001, P1003	Csanyi B.	P1882, P2157, P297,	Dancy L.	P1630
Cortez-Dias N.	P1819, P1820, P534		P579	Danelatos C.	P1924
Corti R.	P1910	Csiko G.Y.	P1250	Dang Le Thuy L.A.N.	P1028
Cortina C.	P1655, P992	Csipo T.	17	Dang T.	P478
Cortina J.M.	P369	Cubeddu R.	P1033, P1087	Daniel Enriquez Vazquez D.E.V.	
Cosentino N.	1326	Cuchiaro M.P.C.	203		P1191, P1198
Cosmi F.	P425	Cucic L.	P2006, P2103	Daniel Garcia Rodriguez D.G.R.	
Costa Cabral J.	200	Culebras Lopez A.M.	P1220		P1098
Costa G.	P298	Cunha D.	P1129	Daniel Sahlin D.S.	P2041
Costa I.	P1022, P1037	Cunha F.	P1741	Danilogorskaya Y.U.	P1661
Costa J.A.C.	P2044	Cunha F.M.	P556	Danilova L.	P2232
Costa M.	P1175, P1175	Cunha G.	1961, 695, P1528, P1723,	Dankova M.	P1083, P1090, P2218
Costa R.	P303		P1739, P1755, P2057	Dannberg G.	1339
Costa S.	P1011, P1175, P1600, P914	Cunha N.	P1701,	Danner E.	1286
Costantino S.	P2199	P1799, P1801, P1820, P2142, P2175,	P304, P903, P909, P981	Dantas M.C.	P1780
Costanzo M.R.	1417, P1720, P1727			Danzmann L.C.	P1575, P2038
Costanzo V.	P1158, P2189	Cunha N.P. D.	P1819	Danzmann L.C.	P318
Cottini M.	P1024	Cunningham T.	P1991	Daoust A.	P1561
Couper G.S.	P379, P382	Curtain J.	P1663	Darabantiu D.A.	P1779
Courand P.-Y.	1324	Cuthbert J.	P1626, P288, P425	Darwesh E.	P2034, P2052
Coutinho R.	P1011	Cvetinovic N.	P2078	Das S.	1350, 1466, P1668, P584
Cova M.A.	P1142, P936	Czopf L.	P1903	D'ascenzo F.	P1800
Covaliov A.	P1898	Da Costa A.	P1691, P1698	Dasgupta N.R.	P560
Cowie M.R.	P1028	Da Silva C.	1351	Daskalov I.	P2017
Cowie M.C.	203	Da Silva F.G.	P2212	D'assante R.	689
Cowie M.R.	P1759	Dabbah S.	P1919	Datta P.	P380
Coyle C.	P2051	Dabic P.	P386	D'auria F.	P1013
Coyne B.	642	Dabrowska K.	P349	Daus M.	P1841
Cozma D.	P1545	Dadarlat A.	P336	Davey R.	P912
Cozma M.A.	P1696	Dadashova G.	1342	Davey R.A.	P1146, P1149, P2070
Cozzolino A.	P634	D'agostino A.	P1757	David- Cojocariu A.	P1896
Craba L.	P1229	D'agostino B.	P2213	David P.	1470
Cramer M.J.	P891	Daha I.C.	P481	David S.	P1554
Cramer M.J.M.	P2184, P521	Dahl C.P.	P1253	Davidov S.I.	P888
Crasmaru G.	P1217	Dahlberg P.	P1145, P293	Davidson J.	P1662
Cravo M.	P1734	Dahlstrom U.	1279, 1934, 1975,	Davila M.	P1601
Crepaldi T.	P2196		P447, P942, P970	Davila Ramos M.F.	P1599
Crespo-Leiro M.G.	P359	Daida H.	P1071, P441	Davila Ramos R.	P1538, P331
Crespo-Leiro M.G.	1928, P561, P911	Daios S.	P1154, P274	Davila- Ramos R.	P2061

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Davila-Ramos R.	P2063, P2072, P416, P420, P421, P427, P428	Dekany M.	P1066, P1570, P1602, P591, P971	Derbeneva S.A.	P1572, P892, 1339, P1265
Davila-Ramos R.A.	P419	Del Pace S.	P1897	Desai P.	P1076
Davos C.	1471	Del Prado Diaz S.	P1178, P1674, P1688, P1798, P2094, P315	Desch S.	P260
De Almeida J.	P1175	Del Prado S.	P1009, P1127, P1177, P1700	Desch U.	P403
De Angelis A.	P1869, P2213, P634	Del Ry S.	P1271, P1854	Desgagnes N.	P1707
De Antonio M.	1930, P1571, P1573, P1598, P1722, P1847, P295, P941	Del Torto A.	1326	Desjardins J.F.	P628
De Boer A.R.	P1607	Del Val J.L.	P2027	Destounis A.	P1163
De Boer M.	P1239	Delarisse M.L.	1468	Deux J.F.	1925
De Boer R.A.	1467, 1937, 7, P1248, P1879, P302, P540, P927, P933	Delcea C.	P481	Devalaraja M.	P469
De Borst M.H.	55	Deleanu D.	P1828, P1909, P2163, P2225	Devasia T.	P1113, P1603
De Caterina R.	P1628	Deleporte A.	P1896	Devore A.D.	642
De Chalut T.	P2180	Delfino F.	P1100	Dewenter M.	P1270
De Geest B.	P635, P636	Delfino P.	P1089	Dewi T.I.	P874, P875
De Graeff A.	P1196	Delgado J.	P277	Dey D.	P232
De Groote P.	P411	Delgado J.F.	1290, P369	Dhillon O.	P1904
De Jong P.C.	P1170	Delgado Jimenez J.F.	1928	Di Bari M.	P1014, P917, P979, P984
De Jong T.V.	789	Delgado Moreno M.	P1001, P1003	Di Biase G.	P550
De Jonge N.	1424	Delgado-Jimenez J.F.	P561	Di Bona A.	1470
De Juan J.	P913	D'elia E.	P270	Di Filippo C.	P1897
De La Cuerda F.	P913	Delic Brkljacic D.	P1165	Di Gioia G.	P234
De La Espriella R.	1976, 683, P1092	Delicata J.	P1649	Di Grazia A.	P2039
De La Fuente-Galan L.	P359	Delis D.	1338	Di Lenarda A.	P2028, P2520
De Las Cuevas Leon D.	P883	Delise P.	P305	Di Mario C.	P509
De Luca N.	P624	Deljanin Ilic M.	P1833, P398	Di Nora C.	P2219, P371
De Maglio G.	P2219	Della Paolera M.	P1142, P936	Di Somma S.	49
De Maria R.	P943	Dellalibera-Joviliano R.	P525	Diaconu C.C.	P1696, P2159
De Martino F.	1326, P1012, P1803, P449, P998	Dellgren G.	843, P1145, P293	Diaconu R.	P1208, P2156
De Potter T.	P234	Demikhov A.	P1834	Dialoupi I.	P2187
De Rosa M.	P1866, P624	Demikhov O.	P2181	Dias G.	678, P1684, P1922
De Ruvo E.	P1536, P1537	Demikhova N.	P1261, P1834, P2181	Dias P.	P2059
De S.	P1146, P1149, P2070, P912	Demir E.	P1625, P963	Diaz Betancur J.S.	P2026
De Teresa-Galvan E.	P1805	Demirevska L.	P2017	Diaz Caraballo E.	P1156
De Vecchis R.	P550, P551	Demkov M.	P1646	Diaz D.P.	P1923
Deaton C.	P1851	Demosthenous M.	P513	Diaz F.	P1097, P313
Deblrier I.	P2138	Demyanchuk V.	P2036	Diaz T.D.	203
Debray T.	P564	Demyanov S.V.	P1219	Diaz V.	1930, P1571, P1573, P1722, P1847, P1848, P941
Decamp L.	P631	Den Ruijter H.M.	P1607, P891	Diaz-Molina B.	P359
Decourcey J.	P1689	Dendale P.	P1568	Dickstein K.	1285, 1931
Deep Chandh R.	P245	Deneer R.	708	Diehl C.	P347
Deepti S.	161	Deng M.	P357, P362	Dierckx R.	P258, P497
Deferm S.	1426	Dengler S.	640	Dietl A.	1286
Degiannis D.	1418	Denisevich T.	P1548, P1550, P1552, P1560	Diez A.	P1825
Deis T.	P2019	Denisova T.	58	Diez C.	P277
Deissler P.	P893	Denofrio D.	P382	Diez M.	P1825
Dejanovic J.	P390	Depasquale E.	P357, P362	Diez Villanueva P.	P913
		Derakhshesh M.	1488, P1167	Diez-Lopez C.	P359
				Diez-Quevedo C.	1930, P1573, P1722, P295
				Diflorio D.N.	13

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Dilling-Boer D.	P1891, P408, P601	Dominguez E.	P1589	Duarte J.	P2057
Dimitriu I.	P1233	Dominguez J.M.	P1230, P2217, P368, P434, P598	Dubon Peralta E.	P2102
Dimitrov S.	P2132	Dominguez M.	P1655, P992	Dubovik T.	P1552
Dimopoulos K.	P1988	Dominguez-Franco A.J.	P1128, P1578, P1620, P1805, P2137	Dubovik T.	P1560
Dimopoulos M.A.	P1162, P2187, P2190, P281	Donath F.	P1184	Ducharme A.	P907
Dimopoulos S.	1338, 1419	Donay B.	P1575	Duchnowski P.	P475, P516
Dinda A.	P1247	Dong N.	12, 5	Dudek M.	P1062, P1565
Ding L.	9	Dong W.	1292	Dudic J.	P2006, P2103
Dini F.L.	P1627, P1757	Dongmo Nanfack C.	1717	Duengen H.-D.	P1184
Dinkov A.	P1651	Donio V.	P2180	Duesterhoeft V.	P893
Dinopoulos G.	P347	Donnellan E.	1466	Dugacicu N.	P440
Diogo P.	P2089, P2091	D'onofrio A.	P1536, P1537	Duino V.	P270
Diplaris K.	P274	Donoiu I.	P1208, P2156	Dujka L.	P405, P596
Ditkivskiy I.	P2243	Donova T.	1969, P2235	Dumitrache A.	P2240
Dividis G.	P239	Dorairaj P.	P537	Dumitrescu A.	P2136
Dixon L.	P1662, P2066, P595, P604	Dorobantu M.	P1217, P602	Duncker D.J.	P1239
Dixon L.J.	1325	Dorofeyeva N.A.	P2205	Dunep P.	P612
Djamandi J.	P2171	Dorofeyeva N.O.	P2208	Dungen H.D.	P2078
Djkkic D.	P1046, P448	Doronina I.M.	P2004, P959	Dungu J.	P332
Djokovic A.	P2183	Dos Santos C.	P1254	Dunn S.P.	157, P1173
Djokovic L.J.	P386	Dos Santos P.	P2021	Dupont F.	P1707
Djordjevic Dikic A.	P1155	Dossche K.M.E.	P2138	Dupont M.	1287, 1420, 1426, 692, P266
Djurovic M.	P2006	Doueh R.	843	Duque G.S.	P1888
Dlesk A.	P1090	Douglas G.	P581	Dural M.	P1056, P1544, P1989, P2077
Dmitrieva R.I.	P2209	Dovga Boivin M.	P2180	Duran J.	P2027
Do Q.T.	P1251	Dovganych N.	42	Duran Torralba M.	P1001, P1003
Do Quang H.U.A.N.	P1028	Dowsing B.M.	1487	Durand R.M.	P2083
Do Thi H.A.O.	P1028	Drachuk K.	P2208	Durazzo A.	P931
Do Thi Nam P.H.U.O.N.G.	P1028	Draganova A.S.	P503	Durnea A.	P1997
Do Van D.U.N.G.	P1028	Draghici M.	P2244	Dusek L.	P2122
Dobrica E.C.	P1696	Draper J.	197, P1169, P2166, P283, P284	Dushina E.	P344
Dobrzycki S.	P502	Drapkina O.M.	P1996, P1998, P1999	Dussekeyeva G.	P240
Docherty K.	204	Dreeva Z.V.	P1686	Dussekeyeva G.M.	P940
Dodd J.	P1176, P557	Driva M.	P1715	Duszanska A.	P881
Doehner W.	P2186	Drohomirecka A.	P1246, P878, P966	Dutton J.	P1091, P363
Doerler J.	640	Drooger J.C.	P1170	D'uva G.	P619
Doevendans P.A.F.	P2184, P521	Drozd M.	P1143, P1812, P1874, P2058, P437	Dworeck C.	206, P1106, P492
Dogan I.	P2172	Drozdz J.	P911	Dyachkov S.	P375
Dogan T.	P1153, P2172	Du H.	703	Dybкова N.	P1238, P1870
Doggen C.J.M.	1289, 687	Du W.	P1248	Dzhioeva Z.R.	P1660
Dohi N.	P1704	Du X.	P1760	Dziegala M.	P1874
Dokter M.M.	P1879	Du X.D.	P1756	Dziewiecka E.M.	1485, P2152
Dolotovskaya P.	58	Duan P.E.N.G.	11	Dzybinskaya E.	P2129, P2134
Dolzhenko M.	1978			Dzybinskaya E.V.	P599
Domenici C.	P1854			Easton K.	P1758
Domingo M.	1930, P1571, P1573, P1598, P1722, P1847, P295, P941			Ebara S.	P1070, P1101, P462
Domingos A.	P1543			Ebner J.	P1868
Domingues C.	P1011, P1175			Ebner N.	P2078, P347
				Echazarreta D.	P1821, P1825

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Echebarria A.	14, P1017, P955	Elia E.	1475	Eruzun H.	63
Echeverria L.E.	P1615	Eliahou L.	1347	Escalante J.P.	P1825
Echeverria L.E.	40, P1767, P2012, P324	El-Khoury G.	1459, P1209	Esch S.	P1633, P282
Echeverria L.U.I.S.	P1766	Ellard S.	P581	Escher F.	P522, P523
Echouffo-Tcheugui J.	P1728	Elliott P.	P518	Escolar Perez V.	14, P1017, P955
Edes I.	P1586	Elorriaga A.	P606	Escobar V.	P1667, P554, P562
Edgardo Alania Torres E.A.T.	P1010	Elorriaga Madariaga A.	P594, P610	Escribano-Subias P.	P369
Edgley A.J.	P1244	Elsaid A.	P1782	Eser B.	P2172
Edmonds C.	P951	El-Shafeey M.	P1252	Eskola M.	P575
Eduardo Martinez Gomez E.M.G.	P1191, P1198	Elshazly A.	P2109	Esmaily S.	P1145, P293
Efanov A.Y.	P430	Elsheikh A.N.	P1782	Espinosa Martinez P.J.	P1215
Efimova I.A.	P1996, P1998, P1999	El-Taher M.	P565	Espinosa S.	P1157
Efimova V.	1479, P2169	Emadi O.F.E.	P1690	Esporcatte R.	P1747
Efremidis M.	P1055	Emara A.	P2153	Esposito A.	P1117
Efremova E.V.	P1023, P2084, P442	Emdin M.	1327, 1482, 1939, 47, P1137, P1628, P1733,	Esquerro M.E.	P335
Efremovtseva M.	P1059, P1126, P1134, P2121		P2055, P250, P250, P302, P443, P526, P930, P933	Esteban-Fernandez A.	P913
Efremushkina A.A.	P400	Emelina E.	P278	Esteves F.	P1761, P480
Efthymiadis G.K.	P1875	Emilio Galcera Jornet E.G.J.	P1010	Estevez A.	P1655, P992
Eggers K.	P302	Eminovici G.	P987	Esther Nkuiou-Pen-Kenfack E.N.	P967
Egidio I.	P1022, P1037	Emmanouilidou M.	P1896	Etemadi M.M.H.	P1068
Egidio Sousa I.	P2030	Egidi J.	205, 55	Ettlinger O.A.	P597
Egikian L.D.	1332	Empel Van V.P.M.	56	Eucker J.	P1159
Egorova M.V.	P1268	Enait V.	P1634	Evangelista I.	P2085
Egstrup M.	P302, P933	Ender J.	P1802	Evdokimov V.	P2056
Ehrlin J.	P1847, P1848	Endomba Angong F.T.	P1717	Evdokimova A.	P2056
Eichner F.	P264, P265, P268, P269	Engel C.	P335	Evertz R.	P347
Eijgenraam T.R.	P1879	Engels Y.M.P.	P1196	Eveson L.J.	P479
Eismark F.	P389	Engin C.	P963	Evrev D.	P2235
Eitaviciute I.	P1900	Englezopoulos K.	P1163	Eykarpidis E.	P603
Ekinozu I.	P1153, P2172	Engstrom G.	P2161	Ezekowitz J.	P907
Ekman I.	P1849	Enina T.N.	P341, P409	Ezra O.	P935
Ekmekci C.	P2143	Enriquez Vazquez D.	P1045,	Ezzitouny M.E.	P1147, P1148
El Cheikh J.	P2167		P1576, P1581, P1711, P2022	Fabbricatore D.	P976
El Gohary A.	P1905	Epingeac M.E.	P2159	Faber J.	1972, P964
El Hadidi S.	P2034, P2052	Erath J.W.	P1557, P242	Fabiani I.	P1627, P1757
El Mais H.	P232	Erath J.W.	P1534	Fabijanovic D.	P387
Elbahry A.	P2109	Erdheim D.	P1593, P2177	Fabricio C.G.	1468
Elbanna M.	838	Ereminiene E.	P2174	Fabricius-Bjerre A.	P466
El-Chami M.F.	P376	Erhardsson M.	P2010	Fabris E.	1483, P1597
El-Dosouky I.	P333	Eriksen-Volnes T.	P948	Fagan A.	P306
Eleftheriadou I.	P1715	Erlinge D.	206, P1096, P1106,	Fagan D.H.	1423
Elemesov N.	P1542, P246		P1109, P492	Faheem N.	P1814, P1816, P2154,
Elesin D.	P246	Ermis N.E.C.I.P.	P1240		P879, P956
Elezi S.	P1724, P1781, P2068	Erne P.	P2036	Fahim N.	P2153
Elezi S.H.	P1122	Erschow S.	P1885	Faibushevich A.	P1631, P1730,
Elgharably M.A.	P956	Ertas F.A.R.U.K.	P2143		P1784, P1786, P1788, P2158
Elgowelly M.	P1018	Erthal F.	P232	Faiez Zannad F.Z.	P967
Elguindy E.	P1782	Ertl G.	46, P1026, P2016	Fairman E.	P1100
		Ertl M.	P2016	Fairweather D.	13, 792
				Fais M.L.	P402
				Faizov L.	638



# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Faizov L.R.	P1844	Faybushevich A.	P2135, P2168	Fernandez-Valledor A.	1346, 1349
Fajardo L.A.	685, P1604	Fazendas P.	P1528	Fernandez-Villa N.	P1257
Falco A.	P1869	Feaktsistava N.	P1552, P2139	Fernando Dominguez Rodriguez	F.D.R. P1098, P1099, P1104
Falk C.	1926	Fedele F.	1290, P1613, P939	Ferrandez Escarabajal M.	P1045, P1576, P1581, P1711, P2022
Falk V.	P329, P388, P893	Federico G.	P1271	Ferrante L.	P243
Fallon J.	157, P1173	Fedorova E.V.	P1829	Ferrara V.	P371
Falls R.	P2101	Fedorovich A.A.	P1996, P1998, P1999	Ferrari I.	P1125
Faludi R.	P2157, P579	Fedorowski A.	P921	Ferraz L.M.	P2120
Fam N.	828	Fedotov P.	P1886, P2238, P367	Ferraz M.	P1739
Fan J.	P1068	Fei H.W.	P609	Ferre M.	P1176, P557
Fan Y.	P2073, P2074	Feijo M.K.E.F.	707	Ferreira A.	1430, 1961, 34, P1194, P1195, P1197, P1632, P931
Fanen P.	1925	Fekete-Gyor A.	1478	Ferreira A.R.	P1797, P301
Fang L.	P1702	Feldman T.	828	Ferreira C.	P1011, P1175, P1809, P1813, P2229
Fanous Y.	P2212	Fele G.S.	P1225	Ferreira F.A.C.	P982
Faradzh C.	1978	Felice T.	P2148	Ferreira H.F.	P1826
Farag N.	P2109	Felix S.E.A.	1424	Ferreira I.	P1616, P294, P885
Farcas A.D.	P1577, P399	Felker G.M.	642	Ferreira J.	1430, 1961, P931
Farhan H.A.	P615	Felsoci M.	P2122	Ferreira J.A.	P1011
Faria B.	678, P1684, P1922	Fendrikova A.V.	P400	Ferreira J.B.	P530, P531
Faria D.	822	Feng A.-N.	P1047, P1653, P1669, P1680	Ferreira J.O.Ã.O.	P1826
Faria D.A.N.I.E.L.	P1826, P531	Fengler K.	P2008, P260	Ferreira J.P.	P1726, P257, P425
Faria D.F.	P530	Fennell L.	P2033	Ferreira M.	P1175, P1852
Faria-Jr M.	P525	Feola M.	P267	Ferreira P.C.	P2142
Farias F.	P1852	Ferati A.	P1122, P1781	Ferreira R.	P1852
Farias O.E.	P1747	Ferentinos P.	1338	Ferreira S.	P1194, P1195, P1197
Farina D.	P976	Ferko M.	P1262	Ferreira T.	P1734
Farina J.	P1824, P528	Fernandes F.	P1884, P629	Ferreri C.	P267
Farkas J.	P249	Fernandes J.	P1797, P301	Ferrero-Gregori A.	P965
Farkas Z.	P361	Fernandes L.	695, P1723, P1739, P2030	Ferre-Vallverdu M.	1935, P2033, P991, P996
Farkasova V.	P1262	Fernandes M.	P1922	Ferri C.	P270
Farooqui A.	821	Fernandes S.	1460, P1702, P924	Ferro E.B.	707, P1193
Farre Lopez N.	P1221	Fernandez Badillo V.	P330	Festa P.	P526
Farre N.	52	Fernandez D.A.	P1579, P2100	Feygina E.E.	P972
Farre R.	52	Fernandez Gardar R.	P1091, P363	Fiane A.	833
Farrell C.	690, P1554	Fernandez Golfin C.	P1009	Fiane D.R.	1422
Farrero M.	P1230, P2151, P2217, P368, P434	Fernandez I.	P1824, P993	Fidelis T.	P1749
Farrero Torres M.	P598	Fernandez M.A.	P1228	Fiedler J.	P1251
Fatela Cantillo D.	P1003	Fernandez Martinez J.	44	Figueroado A.	40
Fathay M.	P2153	Fernandez S.	P1177	Filias A.	P587
Fathi M.	P879	Fernandez Santos S.	P1178, P1674	Filipa T.	P1797, P301
Fatrin S.	P253	Fernandez Suarez A.	P1003	Filipiak K.J.	P911, P968
Fattirolli F.	P1014, P917, P979, P984	Fernandez Valenzuela M.I.	P1650	Filippatos G.	P1043, P1055, P1549, P469
Faucherre A.	P1873	Fernandez-Anguita M.J.	P1166	Filippatos G.S.	P376
Faure M.	P2021	Fernandez-Badillo V.	P1719, P2061	Filippenko A.	P1542, P246
Faustino A.C.	P2120	Fernandez-Del-Palacio M.J.	P1273	Fillis K.	P513
Favale S.	P1536, P1537	Fernandez-Golfin C.	P1127, P1228, P1700		
Favila K.	P1762	Fernandez-Martinez J.	1333		
Fawaz S.	P1904				
Fawsitt R.	P2033				
Faxen U.L.	1975, 62				

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Finato N.	P2219	Fonseca P.	P1522	Frey N.	6, 9
Fine N.	P518	Fontana M.	1977	Frias A.	P303
Finke D.	P2188	Fontos G.	P589	Frick M.	1464
Finkelstein A.	832	Foo D.A.V.I.D.	P1902	Friday J.	P1617
Fiordelisi A.1472, 787, P1866, P624		Ford I.	199	Frigerio M.	P1024
Fiscal-Lopez O.	P1911, P1912, P1917, P2220, P445, P990	Forgacs I.	P1586	Fringu F.	P1713, P336, P432
Fiscal-Ruiz E.	P990	Formiga F.	1333	Frobert O.	206, P1096, P1106, P1109, P492
Fisher E.	P1542, P246	Forozidou E.	P239	Froeb E.	1339, P1265
Fisher P.	P1019, P1762	Fors A.	P1849	Froehlich H.	P1116, P1703, P296
Fisher Y.A.	P409	Forster T.	P1164, P1882, P2157, P297, P579	Frokiaer J.	1280
Fitchett D.	1278	Forsyth P.	P1617	Frolov A.V.	P1639
Fitzgerald S.	P393	Fort A.	52	Frolova Y.F.	P2031, P444
Fitzsimons D.	P415	Fortier J.	P1561	Fronea O.	P602
Flammer A.J.	P1588	Foryst-Ludwig A.	16, P2198	Fruntelata A.G.	P2244
Flessa K.	P1894	Fosbol E.L.	1932	Fu M.	P1708, P447
Flinta I.	P437	Foster B.	P2207	Fudim M.	198, 53, 642, P1745, P1753, P472, P477
Fliser D.	P450	Fotos G.	P239	Fugenfirov I.	1979
Flockton R.	P288	Fouassier D.	P988	Fujigaki Zaldivar J.L.	P985
Florea C.	P1713	Fountoulakis P.	P1201, P2228	Fujihashi T.	P947
Flores Puente F.	P985	Fox H.	P1727	Fujihashi T.F.	P952
Flores- Vargas A.	P2061	Fraccarollo D.	P1583	Fujii H.	P1675, P1683
Flores Vargas A.J.	P1538, P330, P331	Fraczek-Jucha M.	P264	Fujimoto Y.	P1907
Florescu A.G.	1324, P1185	Fraczek-Jucha M.M.	P1064	Fujioka S.	P1742, P2119
Floresta M.	P943	Fragiadakis K.	P1583, P1583, P1705	Fujisaka T.	P1079, P452
Flores-Trujillo F.	P1719	Fragkou P.	P1894	Fujita H.	P1770
Flores-Vargas A.	P2063, P2072, P418, P420	Fragkoulis S.	1419	Fujita T.	1481, P908
Flores-Vargas A.J.	P1065, P421	Francesco Fedele F.F.	P1635	Fujiwara H.	P1907
Flores-Vargas A.J.	P1719, P416, P419, P424, P427, P428	Francis D.P.	P443	Fujiwara T.	P391
Fluvia Bruges P.	P1174	Francisco A.R.	P1801, P2142	Fukunaga M.	P1095, P1742
Fluvia P.	1421, P1692, P2053	Franciso A.R.	P1799	Fukunaga M.F.	P1526
Flyvbjerg A.	57	Franco E.	P1213	Fukunaga N.	P2119
Fodor A.	P361	Franco F.	P1011, P1175, P914	Fulop G.A.	17
Foldes G.	P1250	Franczuk P.	P1143, P1812, P1874, P437	Fung E.	P1716, P2073, P2074
Fomicheva Y.	P1887	Franeкова J.	P2206	Furio P.	P2027
Fomicheva Y.U.	P1886, P517	Frank D.	6	Furlan T.	P1612, P1693, P299
Fomin I.V.	P2020, P2023, P932, P953	Frankenstein L.	P1116, P1703, P1703, P296	Furlan-Daniel R.	P525
Fong M.-C.	P1047, P1653, P1669, P1680	Franszczyk M.	P1202	Furman N.	58
Fonseca C.	1284, 694, 695, P1022, P1037, P1600, P1723, P1739, P1755, P2030, P2057, P307	Frantz S.	P1026, P2016	Furnaz S.	P2145
Fonseca Goncalves F.M.	P1088, P2131, P2170, P555	Franz M.	P510	Furtado I.	P1822
Fonseca I.	P1103	Fraschke A.	P2108	Furukawa A.	P2234
Fonseca K.	P1884	Frati C.	P1869	Fusco A.	P551
Fonseca K.C.B.	P629	Frea S.	P1800	Fusini L.	P1803
		Frei M.	P1553	G Dionisio G.D.	P528
		Freiberger T.	1484	Gaborit F.S.	1972
		Freitas A.Z.	P1011	Gabra G.	838
		Freitas Junior A.F.	P318	Gabriel H.	822
		Freitas P.	1430, P1632, P931	Gabriel L.	P928
				Gabrielyan A.	P360, P886
				Gac P.	P1812

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Gackowski A.	P1064, P1264	Ganesh A.	642	Garcia-Romero D.	P1912, P1917, P2220, P445, P990
Gafaar A.	P1782	Ganesh R.	P1762	Garcia-Vega D.	P1658, P1671
Gagarina N.V.	P519	Gansevoort R.T.	1937, P540, P927	Gardikioti V.	P1804
Gaggin H.K.	P302, P933	Gao C.J.	P1223, P345	Gardner R.S.	P1594, P254, P468
Gaishun E.	P577	Gao Y.J.	P345	Gareeva D.F.	P1119
Gaisin I.	P1180	Gara E.	P1250	Garfias Macedo T.	P347
Gaita D.	P2136, P440	Garascia A.	P1024	Garganeeva A.A.	P263, P920
Gaita F.	P298	Garau G.	P1229, P593	Gargiulo P.	P998
Gaita L.	P2136	Garboan I.	P432	Garkina S.V.	P877
Gajek A.	P1541, P1893	García A.G.	P1842	Garmann D.	P1553
Gajek J.P1186, P1541, P1846, P1893		García Aguado M.	P913	Garmash I.	P2081
Gajewski P.	P2090, P454	García De Lucas M.D.	P553	Garrido Bravo I.P.	1928
Gal R.	P589	García De Veas J.M.	P544	Garrido-Bravo I.	P561
Galan-Fernandez S.	P1658, P1671	García De Vicente A.	P1228	Garrido-Garduno M.H.	P1773
Galat A.	1925	García E.	P277	Gasior M.	P1636
Galati G.	P520	García Fernandez J.	P271	Gasparini M.	826
Galcera Jornet E.M.J.	P567	García Galvez N.	P330	Gastl M.	P1910
Galenko V.L.	P1558, P2209, P395, P916	García- Galvez N.	P2061	Gatti S.	P2196
Galiatsatos P.	P2088	García Gonzalez J.L.	P1150, P1532	Gatzoulis M.A.	P1988
Galicia Amor S.	P330, P340	García Ibarrodo N.	P1210	Gatzov P.	P2132
Galimskaya V.	P344	García Lledo J.A.	P1220	Gaudio C.	P1125, P2079
Galinger K.	P2002	García Lopez M.	P1601	Gause-Nilsson I.	P951
Gallagher J.	1466, 1935, 61, P1176, P1759, P2033, P557, P578, P991, P996	García M.	P1129	Gavazzi A.	P270
Gallagher W.	1466	García Magallon B.	P1150, P1152, P1532	Gavazzi E.	P976
Gallego C.	685, P1604	García Martin A.	P1009, P1700	Gavidia-Bovadilla G.	1930, P1598
Gallo S.	P2196	García Quintana A.	693, P1015, P1601, P559, P994	Gavina C.	P1600
Gallone G.	P1117	García Quintana D.R.	P1599	Gavira J.J.	P1168
Galluzzo A.	P1800, P2196	García R.	1964, P1798	Gavriilaki E.	P283, P284
Galochkin S.A.	P972	García Romero E.	P368	Gavrilenko T.I.	P1057, P1714
Galuppo P.	P583	García Saez D.	P1091, P363	Gawor M.	1970, P2242, P580
Galvan Ruiz M.	693, P1015, P559, P994	García Salvador J.J.	693, P1015	Gayat E.	P461
Galvan-Oseguera H.	P1773, P2042	García Vallejo D.R.	P1599	Gayvoronskiy I.V.	1332
Galves R.	P1691	García Vallejo J.M.	P1601	Gazi E.	P327
Galyautdinov D.	P2134	García Zamora S.	P1579, P431	Gazizova V.	P2129, P2134
Galyavich A.S.	P953	García-Zamora S.	P1579, P431	Gaztanaga Arantzamendi L.	P594
Gama F.	1430, P931	García-Alvarez A.	1346, 1349, P2151	Ge C.	1292
Gaman A.M.	P1696, P2159	García-Carrillo N.	P1257, P1259, P1260	Geavlete D.O.	P1199, P1828, P2163
Gaman M.A.	P1696, P2159	García-Cosío M.D.	P369	Geavlete O.	P1895
Gaman S.	P1990	García-Flores L.	P2063, P2072, P418	Geavlete O.D.	P1909
Gamaza Chulian S.	P1555	García-Galvez N.	P1719	Geelen P.	P234
Gambardella J.	1472, 787, P1866, P2203, P624	García-García J.A.	1333	Gehlken A.C.D.I.	P1879
Gambo Ruberte E.	P883	García-Gonzales M.J.	1290	Gehlken C.	7
Gamza A.	P1569, P1585	García- Osuna A.	P965	Gelazauskaite M.	P1253
Gan L.M.	62, P2010	García-Pavía P.	P518	Gelbrich G.	P264, P265, P268, P269
Ganan Gomez C.	P1220	García-Pinilla J.M.	P1128, P1181, P1578, P1620, P1805, P2137	Gelis L.	P2128
Ganan-Gomez C.	P1681	García-Quintana A.	P369	Geller L.	1474, 834
		García-Romero C.	P1911	Geller L.A.	1478
				Gendlin G.	P1592
				Gendlin G.E.	P278

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Genovesi D.	1482, 1939	Gil Jimenez T.	P401	Gogakos A.	P274
Gentile F.	P1733, P443	Gil P.	P1667, P554, P562	Goh C.W.	P1138, P2211
Gentile P.	P1142, P1597	Gilarova E.	681	Gohar A.	P1607
Gentile S.	P1897	Gil-Cayuela C.	18, P1881	Goia G.	P2008
George J.	1278, 1979	Gilchrist I.C.	P1188	Goidescu C.M.	P1577, P399
George R.	1334	Gilchrist J.G.	704	Goiri J.M.	1964
Georgescu C.E.	P1185	Gilchrist J.H.	P1188	Goirigolzarri J.	P1576, P1581, P1711
Georgiadou P.	1419	Gillmore J.	1977	Gokdeniz T.	P1153, P2172
Gerber B.L.	643	Gil-Martinez P.	1333	Goland S.	1979
Gerds T.A.	1932	Gilotra N.	P2088	Golba K.S.	P1644, P323
Gerisch M.	P1706	Gimenez I.	P1158, P2189	Golbasi Z.	P1153, P2172
Germany R.E.G.	1417, P1720, P1727, P2224	Gimenez J.	P1764	Gold M.R.	P376
Gerrits M.	P1183, P1184, P1706	Gimeno Vazquez E.	P1221	Goldberg L.	1417, P1720
Gerritse B.	P376	Ginghina C.	1329,	Goldberg L.R.	P2224
Gersak B.	P1633, P282	P1139, P1815, P1828, P2163, P2225,	P2240, P2244	Goldraich L.	P1146, P1149
Geukens R.	P1568, P408	Gioia L.	P243	Goldstone A.	P1019
Ghaderi S.	791	Giovannini L.	P1697	Goliasch G.	10, 54, 835, P1243, P2193, P937, P949
Ghalib H.	P2045	Giovinazzo S.	P2071	Golitsyn S.	P1990
Ghekiere O.	P601	Giraldez Valpuesta A.	P1555	Golubeva A.	P344
Gheorghe A.C.D.	P1185	Giraldo A.	P1273	Golubovic M.	P390
Gheorghe G.	P1185	Giraldo G.C.	40	Gomboeva S.B.	P499
Gherasie F.	P1060	Girard K.	P1707	Gombozhapova A.	P455, P582
Ghiara C.	P1014, P917, P979, P984	Girerd N.	P425	Gomes A.C.	P1132, P1540, P1883, P1914
Ghigliotti G.	P2071	Gislason G.H.	1932	Gomes C.	P1616, P294, P885
Ghigo A.	P621	Gitelson D.	P2135, P2168	Gomez Alvarez E.	P985
Ghio S.	P1067	Gitelson E.	P2135, P2168	Gomez C.	P1667, P554, P562
Ghionzoli N.	1482, 1939, P930	Giubertoni A.	1330	Gomez E.	P1655, P992
Ghirardi A.	P270	Giudicatti L.	P1084	Gomez Escobar L.G.	P1562
Ghosh M.	P1913	Giuseppe De Vincentis G.D.	P1635	Gomez J.E.	P1615, P2012, P324
Ghossein M.	P1546	Giverts I.Y.U.	P1645, P2001	Gomez Leiva V.V.	P985
Ghulam Ali S.	P1803	Gjergo H.	P2231	Gomez-Bueno M.	P913
Ghys L.	P928	Gkouziouta A.	1418, 1419, 842, P247, P353, P354	Gomez-Doblas J.J.	P1181, P1620, P2137
Giacalone R.	160	Glavas D.	P1075, P1080, P473	Gomez-Mesa J.U.A.N.	P1766
Giakis N.	P513	Glezer M.	1342	Gomiranova N.V.	P1996, P1998, P1999
Giamouzis G.	P2014, P2024, P929	Glezeva N.	1466	Goncalves F.	35, P1809, P1813, P1822, P2229
Giannadaki M.	P1154	Glimak M.	1485, P2152	Goncalves H.	P1522
Giannakakis G.	P1549	Gnavi R.	P298	Goncalves I.	P1859, P304, P631, P981
Giannakopoulou P.	P603	Goanta E.V.	P1545	Goncalves I.F.	P2199
Giannakoulas G.	P239	Gobbo M.	1483, 64, P936	Goncalves I.S.	P2175
Giannaris V.	P973	Goch A.	36	Goncalves L.	P1011, P1103, P495, P630, P890, P914
Giannini F.	P1117	Gocic Peric N.	P390	Goncalves M.L.	200
Giannitsi S.	P1200, P1901	Goda A.	P1746, P2171, P2231	Goncalves Pereira J.G.	200
Giannitsis E.	P1116	Godava J.	1429, P1140, P383	Goncalves S.	P1600
Giannoni A.	P1733, P2055, P250, P443, P930	Godino C.	P509	Goncalvesova E.	P1083, P1090,
Giardina A.	P402	Godoy B.	P347		
Gierlotka M.	P881	Goena C.	1964, P1667, P554, P562		
Gigantino A.	P1013	Goethals M.	P258, P497		
Giganto M.L.	P1655, P992	Goetz C.	P1778, P2117		
Gil Fraguas L.	P1150	Goetze J.P.	P1588		

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
	P2218	Goudis C.	P1154	Grosu A.I.	P506
Goncharik D.	P1548	Goulas I.	P239	Grote Beverborg N.	P1235
Gonzalez B.	1930, P1571, P1573, P1722, P1847, P1848, P295, P941	Gouliaros N.	P603	Grotti F.	P443
Gonzalez C.L.	P1579, P431	Gowani Z.	P2088	Groves R.	P997
Gonzalez Carrasco I.	P2102	Goya M.	P391	Gruen K.	P510
Gonzalez Carta K.	1323	Grabowski M.	P911	Grundtvig M.	P1703, P2011, P296, P948
Gonzalez Costello J.	P368	Graca Rodrigues T.E.	P1701	Grune J.	16, P2198
Gonzalez D.	P1538, P314, P330, P331, P340	Grakova E.V.	P263, P920	Gruson D.	P350, P957
Gonzalez De Echevarri C.	1964	Gramlich M.	P882	Grzelakowski P.	36
Gonzalez Fernandez V.	44	Grammata P.	P2221	Grzybowski J.	1970, P1646, P2242, P580
Gonzalez Ferrer E.	P1177, P1178, P1674, P1688, P315	Gramovich V.	P2129	Gual-Capllonch F.	P1598
Gonzalez G.	P1767	Grande Trillo A.	P218	Guardado J.	1460, P924
Gonzalez- Islas D.G.	P2061	Grant R.	P2118	Guazzi M.	1976
Gonzalez J.1976, 683, P1092, P277		Grasso C.	P2039, P509	Gubareva E.	P1835
Gonzalez Jaramillo N.	P2026	Gravellone M.	1330	Gubareva I.	P1835
Gonzalez O.	P1157, P544	Gravning J.	P933	Guberna S.	P1233
Gonzalez R.G.	P1842	Grebennikova A.	1342	Gude E.	1422
Gonzalez Robledo G.	P1562	Grebneva V.	P2095	Gudieva K.	P1591, P464
Gonzalez-Costello J.	1928	Green C.	642	Gudkova A.	P1136
Gonzalez-Garcia A.N.A.	P235	Green L.	P1031	Gudkova A.Y.A.	P2147
Gonzalez-Islas D.		Greenberg B.	P945	Gueder G.	46
	P1065, P1719, P1740, P416, P418, P421, P424, P427, P428	Greenwood J.	P1821	Guedon-Moreau L.	P411
Gonzalez-Juanatey J.R.	18, P1881	Greve K.	P1116	Gueli I.	P1137
Gonzalez-Vilchez F.	1928, P359	Grevel J.	P1553	Guendouz S.	1925
Gonzalez-Vilchez F.J.	P561	Grieco F.V.	P243	Guerreiro C.	P1522
Goode K.	P1703, P296	Griffiths B.	P1214	Guerreiro S.	P1632
Gopala Krishna K.	P486	Grigoraki E.	P1163	Guerrero A.	P1821
Gorbachova V.G.	P1057, P1714	Grigoratos C.	1482, 1939, P1137, P526	Gugerell A.	P2193
Gorbanov D.V.	P529	Grigoriadis S.	P283, P284, P549	Gugliandolo P.	P1012
Gorbanov V.	P1831, P2182	Grigoriou K.	P1058	Guha K.	P2005
Gorbanov V.V.	P2104	Grigorov M.	P2132, P504	Guida F.	P621
Gorbanova E.	P1533	Grigoryan S.	P1582	Guimaraes A.C.	P1743, P1780
Gorcsan J.	64	Grijl V.	P1693, P299	Guimaraes J.P.	P1088, P1809, P1813, P2131, P2170, P2229, P555
Gorda I.	P1521, P2082	Grillo J.J.	P369	Guimaraes T.	P1701, P1819, P1820, P2175, P534, P903, P909, P981
Gorelik J.	P1242	Grillo M.	P974	Guiomar V.	P1616, P294, P885
Gorenek B.	P1056, P2077	Grimaldi A.G.Q.J.	P1743, P1780	Gulati A.	P1648
Gori M.	P270	Grimdsdale S.	P2051	Gulizia M.	P520
Gorini M.	P943	Gripari P.	P1803	Gullestad L.	1927, 790, 833, P1253, P1527, P1605, P1806, P948
Goris H.	P1568	Grishin I.R.	P372	Gulsin G.S.	59, P259
		Groarke J.	204	Gulya M.	P1547
		Groba Marco M.	693, P1015, P1601, P559, P994	Gunduz S.	P514
		Grochova I.	P2155	Guner A.	P291
		Gromiko G.A.	682	Gupalo E.	P1990
		Gromov P.	P1831, P2182	Gupta A.	P1760
		Gronchal A.Y.K.	P1629	Gupta A.G.	P1756
		Gross U.G.	P522		
		Grosso J.	P1270		
		Grosso Marra W.	P1800		

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Gupta P.	59, P259	Halley C.	P1663	Hassager C.	1972
Gupta R.C.	15, P2201, P2202	Halliday B.P.	P1648	Hassan Abdelnabi M.	1458
Gupta S.	P570	Hallstroem S.	P2199	Hassanein M.	P2109
Gurbanova E.A.	P880	Hamadanchi A.	1339, P1265	Hatano M.	1425
Gurgehan A.	P2000	Hamadou B.	P1717	Hategan L.	P1882, P2157, P297, P579
Gurghean A.	1462, P1204	Hamdan H.	P1765	Hatipoglu S.	P1648
Gurgun C.	P963	Hamdani N.	791, P1241	Hatziagelaki E.	P543
Gurka J.	1484	Hamdani N.H.	P1872	Hausleiter J.	829, 830, 831
Gurshchenkov A.	P2146	Hamed J.H.	684	Havlenova T.	P2206
Gurskyi V.	P2241	Hamed W.	P2153	Hawkins P.	1977
Gursoy M.O.	P514	Hamitova A.F.	P1119	Hayashi H.	P441
Guryev V.	789	Hammerley D.	P1648	Hayes J.	P1543
Gurzau D.	P1713, P336, P432	Hamodraka E.	P1200, P1201, P2228	Hayrapetyan H.	1342
Gusakova A.	P895, P905	Hamour I.	838, P2045	Hazarapetyan L.G.	P1582
Gusakova A.M.	P1069	Hamrefors V.	P921	Hazebroek M.R.	1980, 56, P257
Gusetu G.	P1713	Hamza O.	P1859, P1868, P2199	Head R.	P637
Gustafsson F.	1290, 1932, P2019, P355, P389	Han E.	P1231	Heckmann M.B.	P2188
Gustafsson I.	57	Han K.-R.	P238	Hegarova M.	P1032, P358, P590
Guthrie S.D.	P574	Han S.	P1171	Hegde S.	P1702
Guvan G.	63	Han S.W.	1457, P422	Hegedus Z.	P1882, P2157, P297, P579
Guzek K.	P1202	Handanis S.	P1154, P274	Heggermont W.	P258, P497, P928
Guzzi G.	P371	Handoko M.L.	P1634	Heintjes E.M.	1289, 687
Gwechenberger M.	835	Hanke M.	P1026, P2016	Heinze R.E.	P2038
Gwon A.M.	P1118, P290, P608	Hansel L.A.	P1207	Heinzel F.	P2200
Gylarov M.U.	682	Hansen L.	P1527	Heinzel F.R.	P893
Gyoengyoesi M.	P2193	Hansen M.E.	P948	Heitzinger G.	835
Ha J.W.	P1135, P1827	Hansen M.S.	P1629	Helbig A.	6
Ha Ngoc B.A.N.	P1028	Hansen T.W.	P964	Helgadottir S.L.	17
Haas D.O.N.A.L.D.	P1212	Hansson N.H.	1280, P1629	Helgesen E.-B.H.	P948
Haase D.	P1265	Hara K.	P1675, P1683	Heller J.A.	P1068
Haataja P.	P575	Harald Mischak H.M.	P967	Helleso R.	P2179
Haberkorn U.	P2188	Haraldsson I.	206	Hengstenberg C.	835
Habon T.	P1903, P589	Hardin K.M.	P1991	Henkens M.	1936, 56, P1811, P338
Hadjiphilippou S.	P2046	Harikrishnan S.	P1107, P484, P485	Henkens M.T.H.M.	1980
Hadzibegovic S.	P1159, P1160, P1161, P2186	Harjola J.	P533	Hennawy B.	P374
Hafe P.	678, P1684	Harjola P.	P1085, P1787, P533	Heo J.H.	P453
Hage C.	62, P2010	Harjola V.-P.	1280	Heo R.	P548
Hagelberg Eng S.	P1847, P1848	Harrington S.	P2083	Heo S.	P1609
Hagenacker T.	1933	Harris S.	P332	Herbst A.	P1014, P917, P979, P984
Hagl C.	831	Hartmann O.	49, P2113	Hermann S.C.	P2044
Haidari S.	1926	Hartog J.M.	P1529	Herminio Morillas Climent H.M.C.	P1010
Haider T.	P1588	Hartog L.M.	P1529	Hernandez C.	P1601
Haidzel I.	P1818	Hartog M.J.M.	P1529	Hernandez-Urquieta L.	P421
Haima A.	P1907	Hartog S.	P361	Hernandez A.F.	642
Haji G.F.	P615	Hartmann O.	49, P2113	Hernandez Antolin R.	P1798
Hala P.	P405, P596	Hartog J.M.	P1529	Hernandez G.	P364
Halabi M.	P1919	Hartog L.M.	P1529	Hernandez Jimenez S.	P1178, P2094, P2239
Halfin E.A.	45	Hartog M.J.M.	P1529		
Haliti E.	P1122, P1724, P1781, P2068	Hartyanszky I.	P361		
		Hasan A.	P1727		
		Hasan M.	P874, P875		
		Hasbak P.	P355		
		Hasenfuss G.	P1238, P1870		
		Hashmy S.	P2118		
		Hasiec A.	P1202		

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Hernandez Lopez S.	P314, P330, P340	Hillege H.L.	P469		P950
Hernandez Perez F.	44	Hillege H.L.	P1726	Hong Y.J.	P1081, P458
Hernandez Urquieta L.	P1538, P314, P330, P331, P340	Hilmi I.	P572	Hongisto M.	P1787
Hernandez Zenteno R.	P1538, P314, P330, P331, P340	Hilova Y.V.	P1792, P2127	Honrado T.	P1797, P301
Hernandez- Zenteno R.	P2061	Hindricks G.	P2008	Honsova E.	841
Hernandez-Afonso J.	P369	Hinojar Baydes R.	P1228	Hooda A.	P380
Hernandez-Diaz J.F.	P1740	Hirakata V.N.	P325, P960	Hoppe U.	P352
Hernandez-Garcia J.M.	P1128, P1181, P1578, P1620, P1805, P2137	Hirao K.	P391	Hopper I.	P1758
Hernandez-Isidro N.	P990	Hirashiki A.	1337, P1718, P346, P438	Horai R.	P1079, P452
Hernandez-Lopez A.S.	P418	Hirohata S.	P1679	Horibata Y.	P1130
Hernandez-Urquieta L.	P1065, P1719, P2063, P418, P419, P420, P424, P427, P428	Hirose K.	P1526, P1742, P2119	Horiuchi Y.	P1074, P471
Hernandez-Vicente A.	P1257, P1259, P1260	Hirota M.	P1763	Horumba M.	P460
Hernandez-Zenteno R.	P1719	Hirota S.	P1216	Horvath B.	17
Hernandez Meneses B.	P559	Hisamo S.	P577	Hoshiga M.	P1079, P452
Hernesniemi J.	P575	Hjalmarsson C.	P447	Hoskova L.	P358
Herranz Hernandez R.	P2102	Ho J.E.	P1991	Hosseiny Fahimi B.H.	P1016
Herrera Herrera D.R.	P1599	Ho Y.A.	P1916	Hotta V.T.	P1884
Herrera Paz J.J.	P1579, P431	Hobbs F.D.R.	P564	Hou J.F.	202
Herrero Garcia V.	P1601	Hocking K.	P2049	Houard L.	643
Herrero-Puente P.	47	Hodorogea A.S.	P1185	Houbrechts M.	P1568
Herrmann K.	1933	Hodson F.	1334	Hov J.R.	790
Hersi A.S.	P376	Hodson F.	P1239	Howlett J.	P907
Herteg B.	P2000	Hoeljmakers J.H.J.	P1239	Howley C.	690, P1663
Herwig M.	791, P1241	Hoendermis E.	P2007	Hrabianik I.	P1560
Heuschmann P.	P1026	Hoendermis E.S.	1431	Hreniuc C.	P279, P440
Heuschmann P.U.	P264, P265, P268, P269	Hoes A.W.	1288, 1934, P1607, P1664, P942	Hristozov K.	P1651
Hewitt H.	P1543	Hoes M.F.	789	Hromanikova K.	P2223
Heyes J.	P1759	Hoes M.F.	P1235	Hryniewiecki T.	P475, P516
Heymans S.	1936, 791, P1241, P1811	Hoefelmann J.	P2149, P898	Hsia F.C.	P1666
Heymans S.R.B.	1980, 56, P257	Hoefelmann J.	P2149, P898	Hsieh C.-W.	P1047, P1653, P1669, P1680
Heyse A.	P928	Hofer D.	P412	Hsu C.-Y.	P1652
Higueras Nafria J.	P1576, P1581	Hoffmann S.	P1885	Hu S.S.	202
Hiki M.	P1071, P441	Hofmann I.	P2177	Hu W.S.	P417, P944
Hilaryano H.F.	P530, P531	Hofman-Tanis A.C.	P1192	Huang C.-Y.	P1652
Hilber K.	P1868	Hofstra L.	P891	Huang D.	5
Hilby M.	P1861	Hogg K.	P1617	Huang K.	5
Hiles H.	P2066	Hohendanner F.	P893	Huang K.-C.	P1047, P1653, P1669, P1680
Hilfiker-Kleiner D.	1468, 1926, 789, P1735, P1885, P489	Hole T.	P1703, P296	Huang W.C.	P1120
Hill A.R.	13	Holm H.	P921	Huber K.	P302, P933
Hill L.	P1662, P415	Holm K.	790	Hude P.	1429, P1140, P383
Hille S.	9	Holm N.	P1689	Hudoyberganov O.K.	P1029
Hillebrands J.L.	1467	Holmstrom P.	P533	Huelsmann M.	10, 54, 835, P1243, P2193, P262, P937, P949
		Holterhues C.	P1170	Hugon-Vallet E.	P1031
		Homentcovschi C.	1462, P1204, P2000	Huhtala H.	P575
		Hon J.S.	P1027	Hulot J.S.	P988
		Honek T.	P1140, P383	Hulshoff M.S.	P1272
		Hong G.R.	P1135	Hummel Y.	P2007
		Hong K.S.	41, P2211	Hummel Y.M.	1431, 1931
		Hong S.J.	P1827		
		Hong T.J.	P1580, P2160, P2195,		

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Humulescu C.	1462	Ijmker J.	P1235	Ishihara M.	P1216
Hung C.L.	P537	Ikeda A.	P310, P320	Ishii S.	1481
Hung C.S.	P969	Ikeda M.	P1763	Ishiwata S.	P441
Hung J.	P1184	Ikeda Y.	1481, P908	Ishizu K.	P1742, P2119
Hung S.H.	P969	Ilgisonis I.	P1661	Isidre Vila Costa I.V.C.	P1198
Hunt J.	P2043	Ilgisonis I.S.	P586	Isidre Vilacosta I.V.C.	P1191
Hunt T.	P1527	Ilias C.	P384	Iskandarani G.	P2167
Hupcey J.E.	704, P1188	Illic B.	P398	Islamova M.	P1591
Hurtado Doce A.	P1091, P363	Ilich I.	P1592	Isma'eel H.	P1672, P1676
Hurtado Rodriguez G.	P883	Iliina V.A.	1332, P1574	Ismoura N.	P1070
Hussain A.I.	P1806	Iliodromitis E.	P1549	Isomura N.	P1101, P462
Hussein Z.	P537	Iliodromitis K.	P234	Isonaga Y.	P1907
Husveith-Toth M.	P1250	Ilyina K.V.	1340	Isotani A.	P1095, P1618, P1742, P2119
Hwang B.H.	P2114, P919	Imamura K.	P2062	Isotani A.I.	P1526
Hwang I.	P1111	Imanov G.	P1631, P1730	Isshiki A.	P1675, P1683
Hwang I.C.	641, P977	Imbrici R.	P1014, P917, P979, P984	Ister R.	P387
Hwang J.Y.	P1993	Inan D.	P1068	Istratoaie O.	P1208
Hwang K.K.	P1108, P1610, P483	Inan O.T.	P1068	Ito M.	P1770, P2062
Hwang S.J.	P1993	Inci M.	P1868	Ito S.	P1095, P1618, P1742, P2119
Hyodo M.	P1095	Infante- Vazquez O.	P2061	Ito S.I.	P1526
Hyodo M.H.	P1526	Infante-Oliveira E.	P1799, P1801	Ito T.	P1079, P452
Iaccarino G.	1472, 787, P1013, P1866, P2203, P624	Infusino F.	P1613, P939	Itti E.	1925
Iacoviello M.	P943	Iniesta A.	P1157	Lucif-Jr N.	P525
Iacovoni A.	P270, P943	Iniesta A.M.	P544, P913	Iudice G.	P1733
Iancu D.G.	P1218	Innocenti L.	P930	Iushko K.	P904
Ianni B.M.	P1884	Inomata T.	P908	Ivailo Daskalov I.D.	P467
Ibarra Fernandez A.	P1538, P331	Inoue J.	P1751, P1752	Ivanov N.	P2132
Ibarra Fernandez A.A.	P314	Inoue T.	1425, P2062	Ivanov V.	P446
Ibarra-Fernandez A.A.	P1065, P420, P421	Inuzuka Y.	1282, P1105, P1994	Ivanova O.	P2209
Ibarra-Fernandez A.A.	P1719, P2063, P2072, P416, P418, P419, P424, P427, P428	Inzucchi S.	1278, P1728	Ivanova R.	P2233, P612
Ibatov A.	P339, P897	Ioanes D.	206, P492	Ivanova-Razumova T.	P1035, P529
Ibe T.	P1770	Ion A.	P1233	Ivanovic P.I.	P1097
Ibero J.	P1168	Ionescu A.	P1139	Ivantsov E.N.	P501
Ibnezine B.I.L.E.L.	P2105	Ionova T.S.	P953	Ivanyi B.	P1164
Ibrahim A.	P365	Iordachescu I.	P460	Ivashenko N.	P2182
Ibrahim B.	P2109	Iorio A.	P2028	Iversen K.	1972
Ibrahim M.	P501	Ip A.	P378	Ivkin D.Y.U.	P2197
Ibrahim P.	P1724, P2068	Iqbal M.	P874, P875	Iwai A.	P1751, P1752
Ibrayeva K.	P1830	Irene Maria Elizondo Rua I.E.R.	P1918	Iya M.	P1675, P1683
Ida T.	P470	Irigoyen M.C.	P629	Izhar S.	P1254, P543, P628
Idoia Bravo Martinez I.B.M.	P1918	Irmak S.	63	J Farina J.F.	P1823
Igawa W.	P1070, P1101, P462	Isa M.H.	P975	Jaafar J.	P487, P493
Igimbayeva G.	P1830	Isaaz K.	P1691, P1698	Jaafar N.	P493
Iglesias D.	P913	Isabekova A.	P321, P328	Jaarsma T.	705, P1038, P1843, P1847, P1848, P2179
Iglesias E.	P1168	Isabel Zegri Reiriz I.Z.R.	P1098, P1099, P1104	Jabir A.	P485, P486
Ignatieva E.V.	P2209	Isacoff D.	P460	Jackson C.E.	P254
Iguaran R.	P2102	Isaikina Y.	P1550	Jackson T.	197
		Isakhanova A.I.	P940	Jacob J.	47
		Ishida T.	P276	Jacobo-Garcia K.	P990



# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Jacobs S.	P376	Jeong H.	P1135		P1104
Jaffer U.	P287, P910	Jeong J.O.	P2097	Jorgensen P.G.	P964
Jager A.	P1170	Jeong M.H.	P1081, P2097, P2121, P2160, P458	Jorsal A.	57, P989
Jahangirov T.	P1020	Jercan A.	P1898, P2244	Josebe Goirigolzarri Artaza J.G.A.	P1191, P1198
Jahjah L.	P1896	Jernberg T.	206, P1096, P1109, P492	Joseph S.	P1727
Jakovljevic D.G.	P1587, P253	Jeronimo Baza A.	P1711	Joseph S.T.I.G.I.	P485
Jaksic Jurinjak S.	P1165	Jessen N.	1280	Josifovic S.	P392
Jakus N.	P387	Jesus Roberto Saez Moreno R.S.M.	P1918	Jovanova S.J.	P2067
Jameesh M.	P490	Jha S.	P1096, P1106, P1109	Jovanovic B.	P2177
Jamel A.H.M.A.D.	P2105	Jhand P.S.	P1992	Jovinge S.	P631
James S. 206, P1096, P1106, P1109,	P492	Jhund P.	P1617	Juan Esteban Gomez Mesa J.E.G.	P1036, P2013
James S.I.	P1041	Jia S.	P1146, P1149, P2070	Juez B.	14, P955
Jan A Staessen J.A.S.	P967	Jimenez Martinez M.E.	P1150, P1152, P1156, P1532	Juhasz B.	17
Janatkyzy A.	P1035, P529	Jimenez Nacher J.J.	P1009, P1700	Juhasz I.	P591
Jang A.Y.	P1082	Jimenez S.	P1655, P992	Jujic A.	49, P2113, P2161
Jang S.Y.	P1073, P1769, P2098	Jimenez Valentin A.	P1538, P330, P340	Jula A.	P575
Jang W.Y.	P1151	Jimenez-Valentin A.	P2061	Julia Seller Moya J.S.M.	P1010
Janin A.	P1873	Jimenez-Cepeda A.	P1740	Juliard J.M.	829
Jankovic N.	P1864	Jimenez-Navarro M.F.	P1128, P1181, P1578, P1620, P1805, P2137	Jung C.	P352
Jankowska E.A.	P1143, P1812, P1874, P2058, P437	Jimenez-Valentin A.	P2061	Jung I.H.	P900
Jankowska-Polanska B.	P1186, P1846	Jimenez-Navarro M.F.	P1128, P1181, P1578, P1620, P1805, P2137	Jung L.Y.	P1637
Janotka M.	P405	Jimenez-Valentin A.	P1065, P1719, P2063, P416, P418, P419, P420, P421	Jung M.H.	41, P2211, P423
Jantti T.	P1787	Jimeno Sanchez J.	P883	Jung S.M.	P958
Januszkiwicz L.	P911	Jin X.	1431, 1931	Jung S.P.	1477, P2185
Januzzi J.L.	47, P302, P933	Jingi A.M.	P1717	Junges M.	P1207
Janwanishstaporn S.	P945	Jirak P.	P352, P403	Jungmann A.	6, 9
Jaouadi A.	P2105	Jirathiyut C.	P915	Jurcova I.	841
Jaquet K.	791	Joao I.	P1528	Jurcut C.	P2225
Jarkovsky J.	P1140, P2122, P309	Joaquim C.	P1571	Jurcut R.	1329, P1139, P1815, P2225, P2240, P2244
Jarkovsky J.J.	P925	Jogani S.	P1906	Juricic S.	P1155
Jaroach J.	P1143, P1812, P437	Johannsen L.	P384	Jurin H.	P387
Jasinski B.	P1554	John Cleland J.C.	P967	Jurin I.	P1165
Jasova M.	P1262	Johnson B.D.	P463	Jurkko R.	P1787
Jaufeerally F.	P2007	Johnson C.J.	P1872	Jurzak-Mysliwy N.	P1921
Jaufeerally F.R.	P954	Johnson J.	P289	Kaba A.	P2118
Javaheri S.	1417	Johny J.	P486	Kabach M.	P1033, P1087
Javanainen T.	P1787	Jones R.	P1648	Kabat M.	P1064, P1264
Jayagopal P.B.	P486	Jones S.	642	Kabir G.	P1254
Jeemon P.	P1107, P484, P485	Jonsson A.	1938, 1938	Kaburova A.N.	P1996, P1998, P1999
Jegenathan R.	821	Joo S.J.	P1642, P2097	Kachurina E.N.	P507
Jelic D.	P1121	Jopling C.	P1873	Kaddah E.F.H.A.	P1737
Jenei Z.S.	1478	Jorbenadze A.	P2036	Kadoglou N.P.E.	P564
Jensen J.	P492, P964	Jorda P.	1346, 1349, P2151	Kadokami T.	P1732
Jensen K.	1476	Jordao M.R.	P629	Kafarski Ł.	36
Jensen M.T.	P964	Jorge Baena Herrera J.B.H.	P1099,	Kagawa K.	P1679
Jeon E.	P366			Kahkhtsyam P.	P1134
Jeon E.S.	P406, P524				
Jeon H.K.	P1827				

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Kahonen M.	P575	Kang J.H.	P1110	Karpalioti M.	P1804
Kahr P.C.	P412	Kang M.G.	P1993	Karpenko D.G.	P311
Kahrman G.	P1042	Kang S.M.1968, P1567, P459, P986		Karpov A.A.	P2197
Kaiafa G.	P274	Kanibekova B.	P1830	Kartamysheva E.	P1002
Kaimonov V.	P581	Kanthisamy V.	P2043	Kartas A.	P239
Kajikawa Y.	P1763	Kantipudi C.	P376	Kartman B.	P951
Kajiwara N.	P1751, P1752	Kanzaki Y.	P1079, P452	Kartoyan Z.	P613
Kakiouzi V.	P2221	Kao A.	P1720, P1727	Karunawan N.H.	P1614
Kakkar R.	P469	Kao A.C.	1417	Karvounis H.	P1875, P239, P274, P588
Kaklamanis L.	842	Kao D.P.	P1992	Karwatowski S.	1334
Kala P.	P547	Kapelios C.	1338, 688, P1715	Kasahara S.	P947
Kalafatis I.	P1162	Kapetanakis S.	197, P1169, P2166	Kasahara S.K.	P952
Kalashnykova O.S.	P527		P284	Kasai T.	P1071, P441
Kalcik M.	P1153, P2172, P514	Kaplon-Cieslicka A.	P911, P968	Kasalinskaya V.V.	P2084
Kalejs O.	P2095	Kaplunova V.Y.	P1880	Kaser A.	640
Kaliev R.	P1035	Kaptenakis S.	P283	Kashtalov V.	P1794
Kalin K.	P1202	Kapustin D.	198, 53, P1745, P1753, P472, P477	Kashtanova S.	P1990
Kalina T.	1484	Kar S.	828	Kasi Ganeshan T.	P617
Kaliullayev B.	P1061	Kara T.	P2216, P547	Kasinathan N.	P975
Kaliyev R.	638	Karaahmet E.	P327	Kasinon N.	P1163
Kaliyev R.B.	P1844	Karaarslan O.	P1153, P2172	Kaspar M.	46, P2016
Kalkan S.	P514	Karabinowska A.	1485, P2152	Kasprzyk-Pawelec A.	P966
Kallikazaros I.	P1924	Karaca O.Z.K.A.N.	P1657	Kassia L.	P1743, P1780
Kallvikbacka-Bennett A.	P1626, P288	Karagiannis G.	P2014, P2024, P929	Kassim S.	P537
Kalnins A.	P2095	Karakas M.	691, P1161, P1184	Kassotakis S.	P1583, P1583, P1705
Kalogeris A.	P1201	Karakosta M.	P1163	Kassoul O.	P1531
Kalogeropoulos P.	P1162	Karakoyun S.	P514	Kastel B.	P2126
Kalogirou F.	706	Karamfiloff K.	P2233	Kastritis E.	P2187
Kalokairinou Athena K.A.	1335	Karamfilov K.	P612	Kaszura M.	P1874
Kalra P.R.	P1759, P2005	Karamitsos T.	P1129, P588	Kataja A.	P1787
Kaluzna-Oleksy M.	P1062, P1565	Karapetyan A.	1485, P2152	Kataoka H.	P1179
Kamah H.	P2132	Karapetyan S.H.	P517	Katare P.	P1247, P1256
Kamilova U.	P1710	Karason K.	P1145, P293	Katayama Y.	P470
Kamilova U.K.	P1034, P899	Karatzanos E.	1338, 1341	Katbeh A.	P234
Kaminki K.A.	P1559	Karatzanos Eleftherios K.E.	1335	Kato N.P.	P1038, P995
Kaminski K.A.	P502	Karaulova Y.	P1126, P1591	Kato T.	1282, P1105, P1994, P441
Kamlage B.	9	Karaulova Y.U.	P1134	Kato Y.	P1679, P1752
Kamler M.	P384	Karauzum I.	P1042, P1052, P1659, P241	Katona M.	P1882
Kammoun I.	P926	Karauzum K.	P1042, P1052, P1659, P241	Katou Y.	P1751
Kampaktis P.	P1129	Karavaev P.	P1039	Katsaros A.	P513
Kamphuis J.A.M.	P2184	Karavelioglou Y.	P1153, P2172	Katsianos E.	P1804
Kamsani S.H.	P2111	Karck M.	P1249	Katsivas A.	P1894
Kamstrup P.	1972	Kardos A.	159	Katus H.A.	P2188
Kanagala P.	59, P259	Kareem H.	P1113, P1603	Katus H.A.	1476, 9, P1116, P1270, P1703, P296
Kanakakis I.	P980	Karime C.	P633	Kaufmann P.	P412
Kanazirev B.	P1651	Karimov A.M.	P1029	Kaul S.	P1091
Kancirova I.	P1262	Kariz S.	P1226, P2018	Kautzner J.	1971, 841, P2079, P2223, P358, P590, P938
Kaneda T.	P1675, P1683	Karlis D.	P2080	Kavanagh E.	690, P1663
Kanellos I.	P1154, P274				
Kang D.O.	P1151				

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Kavantzias N.	P1856, P1857	Kezeviciute M.	P2110	Kim J.	P1609
Kavoliuniene A.	P2110, P474	Khakimova R.A.	P1034	Kim J.A.	P2125
Kawabori M.	P379, P382	Khaled S.	P374	Kim J.B.	P548
Kawai H.	P2062	Khalife K.	P1778, P2117	Kim J.B.K.	P1524, P2173, P546
Kawakami R.	P1216	Khalique Z.	P1913	Kim J.H.	P1081, P458
Kawamoto K.	P470	Khamis A.Z.Z.A.	P1695	Kim J.J.	P2114, P919
Kawamura A.	P2234	Khamnagadaev I.	P1592	Kim J.S.	P958
Kawash R.	P1720	Khan J.	P288, P425	Kim J.W.	P1151
Kawashima K.	1337, P1718, P346, P438	Khan J.N.	59, P259	Kim J.Y.	P2195, P366
		Khan M.K.	684	Kim K.	1968, P524
Kawata T.	P310, P320	Khan S.	P2118	Kim K.B.	P2097
Kaye D.	P1758	Khanyukov O.O.	P527	Kim K.H.	P1081, P1993, P458, P605, P918
Kayumova G.	P1077	Kharkevich K.	P1678	Kim K.S.	P1642, P2097
Kayvanpour E.	1476	Kharoubi M.	1925	Kim K.S.K.	P546
Kazaeva N.	P2139	Khasanov N.R.	P501	Kim M.	P1108, P483
Kazakova E.	P2146	Khasanova E.	1479	Kim M.J.	P2112
Kazatsker M.	198, 53, P1745, P1753, P472, P477	Khasanova E.R.	P1063, P545	Kim M.N.	1477, P2185
		Khayrullin R.	P880	Kim M.S.	41, P1642, P2097, P2211
Kazmi S.	P1703, P296	Khlynin M.	P1987	Kim N.K.	P1073
Kean S.	P1617	Khomyakova M.V.	P940	Kim R.E.	P2195, P950
Keane C.	P1759	Khoo C.Y.	P1027, P381	Kim S.	P422, P605
Kearney A.	P1662	Khoreva M.V.	P2004	Kim S.-E.	P238
Kechedzhieva S.G.	P953	Khoury M.	P1672	Kim S.J.	P524, P548
Kehinde M.O.	P435	Khripun A.V.	P1053	Kim S.J.K.	P1524, P2173, P546
Kelemeneva A.	P1837	Khromov-Borisov N.N.	P400	Kim S.K.	P1827
Kelle S.	P1633, P282	Kido T.	P1070, P1101, P462	Kim S.S.	P2195
Keller A.	P1557	Kiernan M.	P382	Kim S.Y.	P1642, P2097
Keller B.	P1230, P2217, P434, P598	Kiernan M.S.	P379	Kim W.	P548
Keller H.	P403	Kilic T.	P1042	Kim W.H.	P1151, P1637
Keller J.	P589	Kilicaslan B.A.R.I.S.	P2143	Kim W.K.	P1524, P2173, P546
Keller U.	P1160	Kim A.R.	P2195, P950	Kim W.S.	P548
Kellman P.	1977	Kim B.	P582	Kim W.S.K.	P1524, P2173, P546
Kelly D.J.	P1244	Kim B.B.J.	P1567	Kim W.Y.	P1629
Kelly O Haire J.	P394	Kim C.J.	P1827	Kim Y.J.	P2097
Kelly O'haire J.	P1665	Kim D.	P1135, P406, P524	Kim Y.S.	P1637
Kelman S.	703	Kim D.I.	P605	Kimura K.	P1751, P1752, P461
Kemaloglu Oz T.	P1018	Kim D.K.	P605	Kimura S.	P1675, P1683
Kempen H.	P636	Kim D.Y.	P1171	Kimura T.	1282, P1070, P1101, P1105, P1994, P462
Kennedy J.L.W.	157	Kim E.E.	P2114, P919	Kindermann I.	P2037
Kercheva M.	P895, P905	Kim E.J.	1457, P1151, P1619, P1623, P423	King O.	1325, P604
Kerckhofs S.	P928	Kim G.H.	P1118, P290, P608	Kingel K.	60
Kerekanic M.	P249	Kim H.	P986	Kinoshita O.	1425
Keren A.	P935	Kim H.D.	1477, P2185	Kintis K.	P2123
Keren G.	1488, 832, P1167, P2191	Kim H.J.	P422	Kintscher U.	16, P2198
Kerexeta J.	14, P955	Kim H.L.	P1623, P423	Kinugawa K.	P995
Kerk K.L.	P381	Kim H.M.	P2112	Kiokas Sotirios K.S.	1335
Kerr B.	P578	Kim H.N.	P1073	Kipiani Z.	1342
Kessler L.	1933	Kim H.S.	P422	Kipperman R.	828
Kevans J.	P2083	Kim H.Y.	P1081, P458, P918	Kiraly A.	P361
Kevorkov A.	P906	Kim I.M.	P1558		
Kevorkova Y.	P906				

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Kirichenko Y.	P2165	P2081, P2093, P2121, P2169, P464,		Komissarova S.	P1818, P887
Kirillova V.V.	P889		P465, P496	Komiyama C.	P1907
Kirkels J.H.	1424	Kobalava Z.D.	P1731	Komiyama N.	P2047
Kirresh A.	P2092, P2118	Kobalava Z.D.	1463, P1063, P1832,	Kompa A.R.	P1244
Kirsten H.	19, 60		P545, P972	Komuda K.	P878, P966
Kiselev A.	P1860, P1886, P517	Kobalava Z.H.	P1134, P236, P237	Komuro I.	1425
Kiselev A.M.	P2209	Kober L.	1932, 1972, P1787	Konami Y.	P1130
Kispal E.	P511	Kocabas U.	P273	Kondrat'eva D.	P1268
Kiss A.	P1868, P2199	Kocher F.	640	Kondruchaya N.S.	P888
Kiss A.T.T.I.L.A.	P1859	Koci E.	P1122, P1781	Kondylis M.	P2190, P980
Kiss B.	1478	Kockelmann F.	P583	Kong M.G.	P1623
Kiss R.G.	P1066, P1570, P1602,	Kodama K.	P1130, P1704	Konstantin Ramshev K.R.	P467
	P591, P971	Kodama T.	P1907	Konstantinou D.	P588
Kissopoulou A.	P1232	Kodera N.	P470	Konstantinou J.	P1705
Kistorp C.	1972, 57, P964	Kodziszewska K.	P1246, P878,	Kontarakis J.	P1705
Kitko L.	704, P1188		P966	Koonen D.P.Y.	P1248
Kitsiou A.	P2221	Koekemoer A.L.	1929	Koopman P.	158, P1906, P408,
Kittiprachakul S.	P1768, P1772,	Koen A.	P2187, P980		P601
	P1775, P2086, P2115	Koenig T.	1926	Kootstra-Ros J.E.	1937
Kitzen J.J.E.M.	P1170	Kofflard M.J.M.	P1170	Kopeva K.	P263
Kivrak T.A.R.I.K.	P1240, P1657	Kogan E.A.	1967, P1807, P2150,	Kopeva K.V.	P920
Kiyakbaev G.	P236, P237		P251, P407	Kopylov F.Y.	P1203
Kiyakbaev G.K.	P1832	Kogerakis N.	1418, 1419, 842, P247,	Kopytsya M.P.	P1790, P1791, P1792,
Klajda M.	P542		P353, P354		P1795, P2127, P343
Klassnitz M.	640	Koh H.B.	P487	Korchani A.	P926
Kleberger A.	1288	Koh H.B.	P2111, P493	Kordsmeyer M.	46
Klein A.	P2016	Kohno T.	P1746	Koretsky S.N.	P1996, P1998, P1999
Klein D.	P1553	Kohsaka S.	P1746	Koritsanszky K.B.	P511
Klein K.U.	P2199	Koide Y.	P470	Korkmaz-Icoz S.	P1249, P633
Klein L.I.V.I.U.	P1068	Kojtabashi T.	P908	Korobkova E.O.	P586
Klein U.K.	P1859	Kojedub J.A.	P400	Korok E.V.	P439, P507
Kleiner I.	198, 53, P1745, P1753,	Kok W.E.	708	Korosoglou G.	P1633, P282
	P472, P477	Kokhan E.	1479, P236, P237	Korostovtseva L.S.	P1721
Kleiner Shochat M.	198, 53, P1745,	Kokkinidis D.	P1129	Korotkevitch A.A.	P507
	P1753, P472, P477	Kokov A.N.	P507	Kortunova M.J.U.	P1023
Klimenko A.	P1112, P321	Kokubo M.	1337, P1718, P346, P438	Kosa K.	P1066, P1570, P1602, P591
Klisiewicz A.	P1646, P2242	Kolesnik E.	1348	Koscova K.	P596
Klompstra L.	705, P1038, P1843	Kolesnikova E.A.	1340	Kosevic D.	P386
Kloosterman M.	1929, P1546	Kolesnyk M.	P446	Koshlataja O.V.	P377
Klopfleisch R.	16, P2198	Kolesnyk O.	P446	Koshumbayeva K.	P321, P328
Klotz S.	P403	Koleva N.	1969, P2235	Koshumbayeva K.M.	P1539
Kmoch B.	P2155	Kolijn D.	791, P1241	Kosiborod M.	P1728
Knierim J.	P329, P388	Koller L.	P262	Kosiorek A.	P1143, P1812, P437
Knight D.	1977	Kolodina D.A.	P503	Kossida S.	P620
Knosalla C.	P893	Kolomatskaya O.E.	P1053	Kostaki A.	P1583, P1583, P1705
Knudsen S.S.	P389	Kolomiiets M.	1465	Kostakou P.	P280, P973
Knutson A.	1927, P1605	Komajda M.	1286	Kostareva A.	P1136, P1860, P1886,
Ko P.L.	P1750	Komanova E.	P249		P1886, P1887, P517
Kobak K.A.	P1874	Komarov A.S.	P498	Kostareva A.A.	P2147, P2209
Kobalava Z.	1479, 680,	Komarova L.G.	P498	Kostavasilii I.	1471, P620
	P1059, P1112, P1123, P1126, P1591,	Komatsu S.	P310, P320	Kostenko V.A.	1332, P1574

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Kostic T.	199	Kozlovskaya N.	681	Kruszewski M.	P1237
Kostomarov A.	P367	Kozlowska B.	P1237	Krutikov A.N.	P2147
Kostopoulos V.	P280, P973	Kozuch K.	P878	Krykunov O.	P1817, P2243
Kostopoulou A.	P247	Kozyrev A.	P1886	Krysztofciak H.	P1062, P1565
Kostovski V.	P541	Kozyreva A.	P1886, P1887, P517	Kryukov N.	P1835
Kosuta D.	P1612, P1693, P299	Krabbendam-Peters I.	P1239	Kryze L.	P2079
Kosztin A.	1474, 834	Krachak D.	P1094	Kuanyshebekova R.T.	P1539
Kotecha D.	686	Krachak V.	P1094	Kubanek M.	1484, 841, P2155, P2223, P358, P938
Kotecha T.	1977	Kraja A.	64	Kubo T.	P1751, P1752
Kothari S.S.	161	Krajewski A.	P1636	Kuck K.H.	829
Kotova E.	P1126, P1134	Krakowiak A.	50	Kudinov V.I.	P1053
Koudounis P.	P1894	Krakullik K.	P1227, P2231	Kufova S.	P1231
Koudstaal S.	1934, P942	Kral A.	P1563	Kuharenko A.V.	P586
Kouerinis I.	P513	Kramer A.M.	P1859	Kuisma M.	P533
Koul S.	206	Krapels I.P.C.	1980	Kukharchik G.A.	P456
Koumallos N.	P513	Krasnova M.	P2197	Kuklina M.	P1678
Kouranos V.	P479	Krassas G.	P1865	Kuklina M.D.	P1645, P2001
Kourek C.	1341	Kraus T.	P1000	Kula W.	P1921
Kouris N.	P280, P973	Kravchenko G.	1328	Kulah E.	P273
Koutsoukis A.	P1162, P2187	Kravchuk B.	1484, P2223, P358, P938	Kulcsar I.	P1895
Kouvelas N.	677	Krejsova A.	1429, 1484, P1140, P2155, P383	Kulcsar I.-D.	P1874, P437
Kovacevic A.	P1155	Krejci J.	P925	Kulikov A.N.	P2197
Kovacevic V.	P1046, P448	Krejci K.J.	P1078	Kulikova T.	P1876, P618
Kovacs A.	1474, 17, 791, 834, P1241, P1878, P511, P971	Krejsek J.	P1238	Kulikova T.G.	P1258
Kovacs E.	1478	Krekeler C.	P1551, P343	Kulikova V.	P1141
Koval S.	P904	Kremzer A.A.	P260	Kumar P.	P484
Kovalenko D.	P2128	Kresoja K.-P.	P352	Kumler T.	1972
Kovalenko E.	P2056	Kretzschmar D.	P1265	Kummen M.	790
Kovaleva Y.	P961	Kretzschmar T.	P1251	Kundelis R.	P474
Kovaleva Y.U.L.I.I.A.	P2164	Kreutzler F.P.	P2206	Kunduzova O.	P2194
Kovalova Y.U.L.I.I.A.	P2162	Krijt M.	P2026	Kuo F.H.	P1750, P902
Kovarnik T.	P1563	Krinochkin D.	P375	Kuperwasser N.	1470
Kovtun Y.A.	P2009	Krishnakumar G.	P484	Kupresan A.	P1226, P2018
Kowalik E.	P1646	Kristensen S.L.	1932	Kupriyanova A.G.	P1141
Kowalski M.	P1646	Krivolapov S.	P1987	Kuraguntia D.J.	P570
Kozar-Kaminska K.	P966	Krijanac G.	P1046, P2006, P2103, P2126, P448	Kurcalte I.	P2095
Kozdag G.	P1042, P1052, P1659, P241	Kronlage M.	P1270	Kurilyuk Y.	P465
Kozerke S.	P1910	Kroustalli E.	1335	Kurita A.	P1071
Kozhevnikona M.	P1661	Krstic I.	P398	Kurkina M.V.	P1660
Kozhevnikova M.	P586	Kruchinkina E.V.	P1069, P255	Kurlianskaya A.	1342, P1548, P1550, P1552, P1560
Kozhevnikova M.V.	P1880	Kruik H.J.	1289, 687	Kurlianskaya E.	43
Kozhuharov N.	47	Kruik-Kolloffel W.J.	1289, 687	Kurlykina N.	P2002
Kozhukhov S.	42, P1086	Kruk M.	199	Kuroiwa Y.	P1751, P1752
Koziołova N.	P1039, P1051, P1712, P2060	Krum H.	P1244	Kuropatkina T.	P627
Koziołova N.	P953	Krumholz H.	P488	Kuryata O.	P2003, P272
Kozlenok A.	P1569, P1585	Krumholz H.M.	P1736, P1760	Kusano K.	P376
Kozlov P.S.	P395	Krumholz H.M.K.	P1756	Kuskaeva A.	P563, P571
Kozlova I.V.	P442				

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Kusmierczyk M.	P1237, P475, P516	Lakatos B.K.	P511	Laucevicius A.	P1899
Kuster J.	P412	Lala I.R.	P1779	Laufer-Perl L.M.	1488, P1167, P2191
Kutyifa V.	P242	Lalithnithi P.	P2086	Lauriola M.	P619
Kutlu O.	63	Lalithnithi P.	P1768, P1772, P1775,	Lax A.M.	P1257, P1259, P1260
Kutlu Y.	63		P2115	Lazarev P.O.	P2009
Kutya I.N.	P1790, P2127	Lam C.	P1728, P317	Lazareva I.	P2128
Kutyifa V.	P1534	Lam C.S.P.	1281,	Lazareva K.P.	P2009
Kuular A.	P1569, P1585, P1860	1285, 1431, 1929, 1931, 62, 7, P2007,		Lazarova G.	1969
Kuular I.A.	P400	P2010, P537, P954		Lazarova M.	P2216
Kuznetsov V.	P375	Lam K.	P1084	Lazarus A.	P411
Kuznetsov V.A.	P341, P409	Lambadiari V.	P1715	Lazoryshynets V.	P1817, P2243
Kvaslerud A.B.	833	Lambert-Rodriguez J.L.	P561	Le Bras F.	1925
Kvasova O.	P894	Lambing J.	P1702	Le Thi D.E.P.	P1028
Kwak J.G.	P1224	Lambrinou A.	P1851	Le V.K.	P2222
Kwasiewski M.	P1559	Lambrinou E.	706	Leal Neto A.	P2025, P319
Kwasniewski M.	P502	Lampropoulos S.	P274	Leao A.V.	P1845
Kwon H.J.	P1131	Lanari E.	P305	Lebedenko O.	P1860
Kwon H.W.	P1224	Landmesser U.	P1159, P1160, P1161,	Lebedev D.	38, P1547, P2238
Kydd A.	P1214		P2186	Lebedev D.I.	P373
Kydd A.C.	639	Landolfo C.	792	Lebedev D.S.	P1558, P877
Kyrama Nijm S.	P1232	Lanfear D.	P2202	Lebedeva M.V.	P373
Kyriakou M.	P1851	Lang C.C.	1931	Lebedeva O.K.	P456
Kytybai T.	P1844	Lang N.	P1617	Lechiancole A.	P371
Kzhyshkowska J.	P455	Lang N.N.	P254	Leclercq C.	P376, P411
Kzhyshkowska Y.	P582	Langet H.	643	Ledwidge M.	1466, 1935, 61,
L S.L.	P1736	Langley S.	P332		P1176, P1759, P2033, P557, P578,
La Franca E.	64	Laoutaris I.	P1154		P991, P996
La Gioia R.	P449	Lapinska M.	P1559, P502	Lee A.P. W.	P2073, P2074
La Greca C.	P1536, P1537	Lara Padron A.	P1601	Lee B.J.	P397
La Malifa G.	P1608	Larburu N.	14, P955	Lee C.J.	P986
Laabidi O.	P926	Larcova E.V.	P586	Lee E.J.	P248
Laager V.	1423	Laribi S.	P1085	Lee E.M.	P1902
Labeyrie C.	1347	Larin V.G.	P311	Lee G.	P2092
Labib D.	P2109	Larina V.N.	P1829, P2004, P2065,	Lee H.	41, P2211
Labr K.	P309		P311, P959	Lee H.W.	P2195
Labr L.K.	P925	Larsen A.H.	1280	Lee H.C.	P1580, P2160, P2195,
Lachaine J.	P1561	Larsen A.H.	P1629		P950
Lackman I.A.	P1119	Larumbe Rodriguez A.L.R.	P567	Lee H.W.	P1580, P2160, P950
Lacraru A.	P1233	Lasala Alastuey M.	P883	Lee H.Y.	51, P1110, P1827, P2116
Laegran M.	P2011	Lascelles K.	P1988	Lee J.	P1702
Lagadinos P.	P1894	Lashkul D.	P1685	Lee J.G.	P1642, P2097
Lagerstrom Fermer M.	62, P2010	Lasica R.	P2126	Lee J.H.P1073, P1131, P1590, P1769,	
Lago F.	18, P1881	Laskibar A.	P1667, P554, P562		P2098, P2125, P233, P977
Lahoz R.	P306	Lassner D.L.	P522, P523	Lee J.-H.	P1108, P1610, P238, P483
Lai H.Y.	P1750	Lassus J.	P1787, P461	Lee J.M.	P548
Lai W.-T.	P1047, P1653, P1669,	Lateef Nizami H.	P1256	Lee J.M.L.	P1524, P2173, P546
	P1680	Latib A.	828, 829	Lee J.Y.	P1637
Lainscak M.	P2078	Latini R.	P302, P933	Lee M.	204
Laiz B.L.	P1148	Latsios G.	P1804	Lee M.C.	P1750, P902
Lajoie J.L.	P1187	Latypov A.	P1886	Lee M.H.	1283
Lakatamitou I.	P1851	Lau E.S.	P1991	Lee S.	P1623, P1637, P423

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Lee S.E.	P406	Lewis G.D.	P1991	Lio S.L.	P1750
Lee S.H.	P2195, P958	Li B.	P332	Liparulo A.	P2213
Lee S.K.	1457, P1171, P1619	Li F.	12, 5	Lipczynska M.	P878
Lee S.R.	P1637	Li H.	P364	Lipoldova J.	P383
Lee S.Y.	P1135, P958	Li J.	P1736, P1760, P488, P537	Lisco A.	P1729
Lee T.J.	P487	Li J.L.	P1756	Lishmanov Y.	P1987
Lee Y.H.	P592	Li K.F.C.	P1902	Lishmanov Y.U.	P1547
Lees N.	P1091, P363	Li Li C.H.	1421	Lisiak M.	P1006, P1850
Legallois D.	P2180	Li M.	P621	Lisiak M.H.	P1206
Lehane M.	690	Li Q.	P1716, P2073, P2074	List M.	P1735, P489
Lehmann G.	1339, P1265	Li W.	P1988	Little C.	1977
Lehmann L.	P1249	Li X.	P488	Liu B.	5
Lehmann L.H.	P2188	Li Y.A.N.G.	11	Liu C.P.	P1120
Lehtimaki T.	P575	Li Y.Y.L.	P1890	Liu E.	P1991
Leite H.	P480	Li Z.	59, P259	Liu H.	P2222
Leite-Moreira A.	P1274	Liang H.	P1677	Liu J.	P1182
Leithner D.	P1137	Liao C.T.	P1750, P902	Liu S.	1423, P1716, P1867, P2073, P2074
Lejnieks A.	P2095	Liashenko A.V.	P1049, P1725	Liu S.L.	P1756
Leka A.	P1781	Liatis S.	P1715	Liu W.	P1267
Leka R.	P1122, P1781	Libhaber E.N.	P1640	Liu Y.M.	1292, P592
Lelyavina T.	P395	Lichtenauer M.	1339, P1865, P352	Livanis T.H.	P247
Lelyavina T.A.	P1558, P2209, P400, P916	Lickliter J.	P1702	Livi U.	P2219, P371
Lema C.	P1604	Lidon R.M.	44	Ljubas Macek J.	P387
Lema L.	P1821, P1825	Lie I.	P2179	Ljung Faxen U.	P2010, P970
Lemos M.A.	P2026	Liem N.S.	P874, P875	Ljungman C.	206, P1708, P447, P492
Lena A.	P1159, P1160, P1161, P2186	Liesy P.	P2049	Lloreda-Surribas M.	P1658, P1671
Lenihan D.	P282	Ligay Z.N.	P940	Llorens P.	47
Lentz B.L.	P1187	Liliya Demirevska L.D.	P467	Lluis I.	1964
Leonardi G.	P943	Lim K.C.	P2111	Lo Forte A.	P1014, P917, P979, P984
Leong K.T.G.	P954	Lim S.	828	Lobmeyer M.	P1706
Leonova I.A.	P1211, P2232	Lim S.S.	P2111, P487, P493	Loch A.	P572
Leontiadis E.	1418, 1419, 842	Limongelli G.	P449	Lockie T.	1977
Leontsinis I.	P1924	Limpot T.	P1749	Loennechen J.P.	P1527
Lepage S.	P252	Lin C.-M.	P622	Loevets T.	P2238
Lepage S.L.	P1707	Lin F.Y.	P1643	Loevetz T.	P517
Lepetic P.	P410	Lin P.L.	P592	Loewen S.	P1182, P1183
Lescano A.	P1823, P1824, P1825, P528	Lin Y.-C.	P1652	Loffredo S.	787
Lesgidis C.	P2123	Lin Y.H.	P969	Lofftus S.	P379, P382
Leskovar B.	P1612, P1693, P299	Linaratou V.	1341	Loganathan S.	P1249, P633
Lesny P.	P1083, P1090, P2218	Linde C.	1423, P970	Logrand F.	P1854
Leszek P.	P1237, P1246	Lindenfeld J.	P1992, P2049	Logstrup B.B.	P1629
Leta I.I.	P1908	Lindmark K.	1938	Loh J.	P381
Letsch A.	P1161, P2186	Lindstedt E.	P1248	Loiacono F.	P1230, P2217, P365
Levin M.-D.	P1170	Ling L.H.	P2007, P954	Lokaj P.	P2122
Levins T.	P1919	Linhardt A.	P1563	Lombardi C.M.	1336
Levintas A.	P1987	Linke A.	P1557	Lomper K.	P1006
Levy A.	198	Linschoten M.P.M.	P2184	Loncar D.	P1054
Levy Y. 198, 53, P1745, P1753, P472		Linschen G.	1288	Loncar G.	P2078
Lewis E.	204	Linssen G.C.M.	687, P1664		
		Linssen G.L.	1289		
		Lio A.	840		

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Longo S.	P1701, P909, P981	Lovric D.	P387	Lyashenko A.V.	P1057
Lonn E.	1284, 694	Lovric-Bencic M.	P410	Lyasnikova E.	P1569, P1585, P1860
Lopatin Y.	1342	Lozano A.	14, P1017, P1667, P554, P562, P955	Lyasnikova E.A.	P1558
Lopatin Y.U.	P1002	Lozano Edo S.L.E.	P1147, P1148	Lycholip E.	P2179
Lopena P.	P1608	Lozos V.	P513	Lygidakis S.	P1163
Lopes Da Costa I.	P2030	Lu Y.Y.	P1004	Lyon A.	1487, P1096, P1106, P1109
Lopes E.G.	P1743, P1780	Lu Z.G.	P345	Lyon A.R.	P2165
Lopes G.	P525	Luca C.T.	P1545	Lypovetska S.	P2241
Lopes K.	P525	Lucas C.M.H.B.	P1196	Lysak Z.V.	P2009
Lopes P.	1961	Luchkova A.	P2204	Lyubimov R.O.	P1863
Lopes S.	P307	Ludka L.O.	P925	Lyuukshonkova K.A.	P1023
Lopez A.	P1881	Ludka O.	P309, P547	Lyytikainen L.P.	P575
Lopez Caballero T.	P2102	Ludwig R.	P2016	M Vergara M.V.	P1823
Lopez De Sa E.	P1157	Lueck L.-C.	P1159, P1160, P1161, P2186	Ma H.P.	P969
Lopez Garcia L.	P2102	Luedike P.	1933, P384	Maack C.	1286
Lopez L.	P1692	Luettgies K.	16, P2198	Maack C.M.	P1872
Lopez Lopez L.	1421, P1174	Lui L.T.	P1716, P2073, P2074	Maass A.H.	P1546, P1989
Lopez Moyano G.	P1001, P1003	Luiso D.	52	Maass A.H.	1420, P1544
Lopez Perales C.R.	P883	Lukina O.	P1123, P2093, P464, P496	Macarie C.	P1895, P1909
Lopez Perez M.	693, P1015, P401, P559, P994	Luknar M.	P1083, P1090, P2218	Macaya C.	P1576, P1581, P1711
Lopez Rodriguez F.	P553	Lukovic D.	P2193	Macdonald J.A.	8
Lopez Sendon J.L.	P1157	Lukyanov S.	P1831, P2104	Macedo F.	P1774
Lopez Tejero S.	P552, P553	Lum C.J.	P357, P362	Macedo T.G.	P2078
Lopez U.	P277	Lumillo Gutierrez I.	P2053	Macek M.	P2223
Lopez-Herrera P.	P1257, P1259, P1260	Luna-Rodriguez G.L.	P1065, P420	Macara F.	P943
Lopez-Jimenez F.	1323	Luna-Rodriguez G.L.	P2063, P2072, P416, P418, P419	Macgowan G.A.	P1587, P253
Lopez-Lereu M.P.	683	Luna-Rodriguez L.	P421, P424, P427, P428	Machackova T.	1429
Lopez-Reboiro M.L.	1333	Lund L.H.	1279, 1934, 62, P2010, P289, P942, P970	Machado B.B.	P1193
Lopez-Sendon J.L.	P544	Lunde I.G.	P1253	Machado I.	P1922
Lopez-Viella R.	1928	Lunev V.I.	P2065	Maciel M.J.	P1774, P2089, P2091
Lopez-Vilella R.L.V.	P1147, P1148	Lupan A.M.	P481	Madeddu D.	P1869
Lopienski P.	P1559, P502	Lupi L.	P976	Madelaire C.	1932
Lorente Ros A.	P1009, P1127, P1177, P1700, P1798	Lupon J.1930, P1571, P1573, P1598, P1716, P1722, P1847, P1848, P295, P302, P941	P1253, P2065, P481, P976	Madhu S.	P484
Lorusso B.	P1869	Luque Diaz T.	P2022	Madu E.M.	P1699
Losco F.	P1158, P2189	Luque Diaz T.S.	P1576, P1581, P1711	Mady C.	P1884, P629
Losik D.	P1542, P246	Lurz J.A.	P2008	Maeda D.	P1079, P452
Lotá A.S.	P1648	Lurz P.	19, 60, 830, 831, P1802, P2008, P260	Maejima Y.	P391
Lotan C.	P935	Lutgarde Thijs L.T.	P967	Maekawa E.	P908
Loureiro M.J.	823	Lutokhina Y.A.	P1810	Maemura K.	1481, P908
Lourenco A.	678, P1274, P1684, P1922	Luz A.	P303	Maestrini V.	P1613, P939
Lourenco C.	P1600	Lyashenko A.V.	P1714	Magamedkerimova F.A.	P501
Lourenco P.	P1616, P1741, P294, P556, P885	Lyashenko A.	P326	Magamedkerimova F.A.	P501
Lousada N.	P1701, P1819, P1820, P304, P534, P903, P909, P981			Magana Serrano J.	P1773, P312
Lovitz L.	P1033, P1087			Magana-Serrano J.A.	P1773, P2042
Lovley A.	P574			Magedanz E.H.	P1575
				Maggioni A.P.	P461, P911
				Magini A.	P1012
				Magiras N.	P1043, P1055
				Maglaras G.	P2187, P2190, P980
				Magnusson M.	49, P2113, P2161, P921



# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Magyari B.	P589	Mancone M.	P1613, P939	Marek-Bukowiec K.	P349
Mahamat Y.	1479, P2169	Manconi M.	P1225	Marenzi G.	1326
Mahambetova K.	P1035	Manczak M.	P244	Mares R.	P631
Mahfoud Z.	P490	Mandes L.	P1815	Mareti A.	P2190, P980
Mahfouz K.	P1537	Mandole R.A.H.U.L.	P426	Marfil Daza D.R.	P1599
Mahia Casado P.	P1581	Maneikiene V.	P1899	Margineanu C.	P1895
Mahmood G.M.	P615	Maning J.	P364	Margonato A.	P520
Mahmood M.	P285	Manion M.	P1729	Margonato D.	P1089, P974
Mahne B.	P1226, P2018	Manitiu I.	P987	Maricic V.	P392
Mahon N.G.	P1663	Manito N.	P277	Marilovceva O.	P1838
Maia Cruz C.	P1822	Manjon Rubio H.	P2094	Marin L.G.	P2038
Maier L.	P1870	Manjunath C.N.	P486	Marin Y Kall C.M.	203
Maier L.S.	P1238	Manka R.	P1910	Marinakias A.	P1543
Maisano A.	P298	Mann D.	64	Marinho V.	P1103
Maisano F.	829	Mann D.L.	P637	Marinica I.	P1909
Maisel A.	P1074, P471	Mannila M.	1351	Marinkovic D.	P1833, P398
Maiskov V.V.	1463	Mannion T.	P1041, P1665, P393,	Marinkovic G.	P631
Majeed M.	P565		P394	Marin-Lopez S.	P1658, P1671
Majer F.	1484	Mannix K.	690	Marin-Neto J.A.	P1877
Majewska J.	P349	Manno T.	P1675, P1683	Marino A.M.	P1842
Major J.L.	P2212	Manolaki T.	P1901	Marinos G.	P2080
Majoros Z.S.	P1066, P1570, P1602,	Manolakou P.	P1894	Marinova E.	P1651
	P591, P971	Manolis A.J.	P1200, P1201, P1901,	Marinova R.	P2233
			P2228	Mariottoni B.	P425
Makaritsis K.	P1855	Manouras A.	1351, P289	Maris M.	P928
Makarov V.V.	P1996, P1998, P1999	Mansour Y.M.	684	Mariscal E.	P553
Makris N.	P980	Mansur L.S.	P2038	Mariscal Lopez E.	P552
Maksimenko Z.F.	P1119	Mantegazza V.	1326, P1803	Marketou M.	P1162, P1583, P1705
Malaktou A.	706	Mantis C.	P2123	Markey P.	P1758
Malamut C.	1468, P1877	Manuel A.	P1522	Markousis-Mavrogenis G.	P469
Malaweera A.	P2043	Manzanal Rey A.	P1210	Markov V.A.	P500
Malchikova S.V.	P953	Manzotti M.	P335	Maroldi R.	P976
Malek F.	P309, P405, P596	Mapelli M.	1326, P1012, P1803,	Marques A.	34, 823, P1132, P1528,
Malek I.	P1032, P590		P449, P998		P1540, P1883, P1914, P457
Malek M.F.	P925	Mar G.Y.	P1120	Marques A.P.	P307
Malenkova V.Y.	P400	Maragkoudakis S.	P1583, P1583,	Marques F.	P2044
Malerba G.	P1089		P1705	Marques I.	P1734
Malhotra R.	P1991	Maravilla R.	P1738	Marques J.A.	1323
Maliarchuk R.	1328	Marchel M.	P911	Marques P.	P1741, P556
Malinova L.	58	Marcisz C.	P323	Marquez Navarro J.A.	P1210
Malliaras K.	688, P1855	Marco Del Castillo A.	P2094	Marra A.M.	689
Malliou A.	P876	Marco I.	P1157, P544	Marshall A.J.	P2043
Mallofre-Vila N.	P1658, P1671	Marcos Fernandez Escarbajal		Marsico F.	P998
Malsch C.	P1026	M.F.E.	P1191, P1198	Martens P.	1287, 1291, 1420, 1426,
Maluskova J.	841	Marcos Gonzalez Barja M.G.B.	P1191,		692, P266, P928
Maly J.	841		P1198	Martha L.	P1266, P1878
Mambetov A.	P1784, P1786	Marcucci R.	P1897	Marti Almor J.	P1221
Mammadov M.	P2140, P2141, P385	Marczak M.	1970, P2242, P580	Marti-Almor J.	52
Manca P.	P1225	Mareev V.	P932, P953	Martin Barrios E.	P1166
Mance M.	P410	Mareev V.Y.U.	P2029	Martin Davila M.P.	P1127
Manchenyo Franch N.M.F.	P1148	Mareev Y.	P932, P953	Martin De La Fuente P.	P401
Manco L.	P1608				

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Martin Dominguez C.	P552, P553	Masenko V.	P1072, P1876, P2015,	Maximkin D.	P2135, P2168
Martin Gonzalez J.	P271		P618	Maximkin D.A.	P1631, P1730, P1784,
Martin L.	P544	Masenko V.P.	P1595, P1686		P1786, P1788, P2158
Martin Lorenzo P.	693	Masetti M.	P1697	Maximov N.	P1180
Martin P.	P1598, P1847, P1848	Masharipova D.	P1710	May C.R.	P2032
Martin P.-L.	P1085	Masharipova D.R.	P1034, P899	Mayerhofer C.	790
Martin Polo L.	P1157	Mashkurova Z.T.	P1030	Maza-Juarez G.	P1773, P2042
Martincic M.	48	Masi S.	P1757	Mazur T.	P1834
Martinese L.	P1014, P917, P979,	Masip J.F.	1290	Mazurkiewicz Ł.	P2242, P580
	P984	Maslovskiy V.I.	P1908, P2130	Mazzeschi M.	P619
Martinez A.	1977	Maslovskiy Y.V.	P1908, P2130	Mazzetti S.	P1089, P974
Martinez- Bautista L.A.	P1065	Masotti S.	1482, 1939	Mbakwem A.C.	P435
Martinez C.	P1767	Masoudi F.	P488	Mc Clure C.	P1662
Martinez De Bourio Uriarte R.	P1210	Masoudi F.A.	P1736, P1760	Mc Cormick J.	P983
Martinez Dolz L.M.D.	P1147, P1148	Masoudi F.A.M.	P1756	Mc Donald K.	61, P983
Martinez Gomez E.	P1576, P1711	Masoura C.	688	Mc Hugh A.	P983
Martinez Huertas S.	P401	Massberg S.	830	Mcadam B.	P1041, P1665, P2083
Martinez J.	P1097, P1764	Massey H.T.	P2237	Mcadam B.F.	P393, P394
Martinez J.D.	685	Massimo Mancone M.M.	P1635	Mcallister D.	P1617
Martinez L.A.	P544	Mast T.P.	P521	Mccambridge J.	P1759
Martinez Mateo V.I.R.G.I.L.I.O.		Masters J.	P2032	Mccann G.P.	59, P259
	P1166	Masuelli M.G.	P2100	Mccausland K.L.	P574
Martinez Medina F.	P1221	Masuyama T.	P1216	Mcclements B.	821
Martinez- Memije R.	P2061	Mata Caballero R.	P261	Mcclure R.	690
Martinez Selles M.G.	P561	Matasic R.	P410	Mccreary K.	821
Martinez-Bautista A.	P2072, P424,	Mateus P.S.	P1088, P2131, P2170,	Mccune C.	P2066, P595, P604
	P427, P428		P555	Mcdiarmid A.	P1630
Martinez-Bautista L.A.	P420	Mathew A.	P2118	Mcdonagh T.	P1630
Martinez-Bautista L.A.	P2063,	Matiakis M.	P2035, P2140, P2141,	Mcdonagh T.A.	197, P1689
	P416, P418, P419, P421		P385	Mcdonald K.	1466,
Martinez-Dolz L.	18, P1881	Matias C.S.	P982		1935, P1748, P1759, P2033, P2050,
Martinez-Herrera M.	P1260	Matic P.	P2177		P578, P991, P996, P996
Martinez-Rios M.	P445	Matiti L.	P978	Mcdonald K.M.	P1176, P557
Martinez-Rubio A.	P1658, P1671	Matopoulou E.	P1154	Mcdonald M.	P907
Martinez-Selles M.	P913	Matskevich L.A.	P1996, P1998,	Mcewan P.	P951
Martinho A.	P914		P1999	Mcglynn K.	P1554
Martinho A.S.	P1011	Matskevich S.A.	P429	Mckane S.	P1720, P1727
Martinho S.	P1175	Matsue Y.	P441	Mckelvie R.	P1146, P1149, P2070,
Martins J.L.	P2120	Matsumoto H.	P1071, P441		P912
Martins S.	P1819, P1820, P534,	Matsuo N.	P1679	Mclaughlin J.	P1554
	P903	Mattavelli I.	P1012, P998	Mcmonnachie A.	P2036
Martin-Sanchez R.	P2102	Mattheus M.	1278	Mcmurray J.	204, P989
Martos Cardenas T.	P1221	Matullo G.	P2196	Mcmurray J.J.	199
Martos-Zuleta E.	P990	Matute-Blanco L.	676	Mcmurray J.J.V.1932,	P2007, P254
Martyanova Y.	825	Matyas C.	P1266	Mcmurray J.V.	P1617
Marwick T.	P1754	Maule M.	P298	Mcnelly C.	690
Marx N.	1278, 1464, P882	Maulik S.K.	P1256	Mcsharry M.	P306
Marylovceva O.	P1837, P1858	Maurea N.	788	Mcwalter K.	P581
Masciocco G.	P1024	Maurer T.	P1845	Mebazaa A.	P1590, P2110, P461,
Mascmann C.	P466	Mauro V.	P1100		P474
Mase' M.	P936	Mavroidis M.	1471, P620	Mebazaa A.M.	203

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Mechri M.	P926	Mendoza Cuartero P.	P1210	Michalak M.	P911
Meder B.	1476	Mendoza Cuartero P.M.	P594, P610	Michalek P.	1970, P580
Medina Gil J.M.	P1601	Mendoza Lemes H.	693, P1015,	Michalowska I.	P2242
Medina J.	P317		P559	Michas G.	P1058
Medina J.M.	P369	Mendoza Mujica I.J.	1323	Michelis I.	677
Medina L.A.	37	Mendoza P.	P606	Micovic S.	P386
Medina Suarez J.	693, P1015, P559,	Mendoza-Zavala G.H.	P1773	Middeljans-Tijssen C.W.	P1196
	P994	Menezes Falcao L.	P2057	Midi P.	P943
Medina-Paz L.	P1912, P2220	Menin A.S.	P2038	Migaj J.	P1062, P1565
Meditskou S.	P1875	Menken R.	P891	Miger K.	P466
Medovchshikov V.V.	P1063, P545	Menzorov M.V.	P2084	Miglioranza M.H.	P1575
Medvedev O.	P627	Meray I.	680	Migliorini M.	P1014, P917, P979,
Medvedeva A.	P2128	Meray I.A.	P972		P984
Medvedeva E.A.	P1721	Merchan Gomez S.	1965	Miguel Gutierrez A.	P1221
Medvedeva N.	P2210, P626, P627	Merdler I.	832	Mihalcea D.	P2245
Meekers E.	158	Merimsky O.	P2191	Mikhailusova M.P.	P2065
Meems L.M.G.	1937, 7, P927	Merino C.	P1157, P544	Mikhailiev K.	P884
Mehrotra P.	P2237	Merino Merino A.	P271	Mikhaylov A.	38
Meine M.	P1544, P1546, P1989	Merino Rajme J.A.	P985	Mikhaylov E.N.	P1558
Meinecke A.	P1251	Merkel T.	P997	Mikheenko I.	P1542, P246
Meira M.	P1194, P1195, P1197	Merkely B.	1474, 1478, 17, 199, 834,	Mikheeva K.Y.	P503
Meisel S.	198, 53, P1745, P1753,		P1249, P1250, P1266, P1889, P361,	Miklik R.	P2122
	P472, P477		P511, P633	Miklikova M.	P2122
Mejat A.	P1873	Merkely B.P.	P376	Mikstiene V.	P1899
Mejia J.	1468, P1877	Merken J.J.	1980	Mikus G.	P1184
Mekhdieva K.	P2236	Merlo M.	1483, 64, P1142, P1597,	Milacic P.M.	P386
Melander O.	49, P2113, P2161, P921		P936	Milet I.	P1761, P480
Melenevych A.	P922	Mershina E.A.	P1810, P519	Mileva N.	P612
Melenovskiy V.	1484, 1971,	Mert K.U.	P1056, P2077	Milicic D.	P387
	841, P1032, P2079, P2206, P2223,	Merz A.	204	Milinkovic I.	P1046, P448
	P358, P590, P938	Mesa Prado F.E.	P552, P553	Miliopoulos D.	P247
Meli A.C.	P1873	Mesado Batalla N.	P2053	Militao I.	P1761, P480
Melis M.	P1225	Mesado N.	P1174	Militaru S.	P1139
Melleby A.O.	P1253	Mesitskaya D.F.	P1203	Millan Alvarez X.	1421
Melnik O.	P1887, P517	Messaoudi Y.O.S.R.A.	P2105	Millar K.	P1041
Melnikova O.P.	P1639	Mestre Barcelo J.L.	P1798	Miller R.	P566, P568, P569
Melnyk H.	P2035	Metelkin A.	P2093, P464	Miller W.L.	P2064
Meloni A.	P1137	Metra M.	1285, 1336, 1931, P976	Milner J.	P1011
Meloni L.	P1229	Mettini S.	P1579, P2100	Milojevic M.P.	P386
Menanga A.P.	P1717	Mewton N.	P1031	Miloslavskiy D.	P904
Mendes M.	1430, 1961, P1632, P536,	Meyer M.	P1553	Milouchi S.	P926
	P931	Meyer S.	1285	Milto A.	P1126, P1134
Mendes Pedro M.	P1701, P2175,	Meza Y.	1323	Minana G.	683, P1092, P1589
	P909	Mezhiiivska I.A.	P1908, P2130	Mincan O.	P2000
Mendez Fernandez A.B.	P965	Mezhonov E.	P2107	Mincu R.I.	P384
Mendez-Bailon M.	P2102	Mhitaryan L.S.	P1057	Mineiro A.	P1819, P1820, P534
Mendez-Ortiz A.	P990	Mhityaryan L.S.	P1714	Minten L.	1287
Mendly S.	P1050, P451	Miani D.	P2219	Mirabet Perez S.	1421, P2053
Mendonca C.	P1734	Micali M.	P1608	Mirabet S.	P1174, P1692, P368
Mendo-Pedrajas I.	P1681	Micciche' A.	P2213, P634	Mirabet-Perez S.	P359, P965
Mendoza Britto I.J.	1323	Michaelsson E.	P1248	Miranda C.	P1823, P1824, P528

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Miranda H.	P1114, P1115, P1761, P1796, P480, P494	Mochula O.V.	P500	Moons K.	P564
Miranda R.	P1132, P1540, P1914, P457	Moderato L.	160, P308	Moore A.M.	P1649
Miranda-Silva D.	P1274	Moebius-Winkler S.	1339, P1265, P510	Mor L.	1488, P1167
Mircheva L.G.	P1654	Moerbitz J.	60	Mora L.	P1655, P992
Mirea O.	P1208	Mohammed Ahmed M.A.K.	P1690	Moraca M.	P1155
Mirizzi G.	P1733, P2055, P250, P250, P250, P443	Mohan J.	P515	Morais C.	822
Mirmaksudov M.S.	P292	Mohan J.C.	P896	Morais C.M.	P1826, P530, P531
Mirna M.	P1865	Mohd Ghazi A.	P2111, P487, P493	Morais J.	1460, P924
Miro O.	47, P461	Moiseeva A.	P1647, P1997	Morais P.	P2142
Mironenko M.Y.	P576	Moiseeva O.	1480, P2146	Morais P.S.	P1799, P1801, P534
Mironova N.	P1990	Mokhi Eddin O.A.	P1863	Morais R.	695, P1723, P1739, P1755
Mironova S.	P1051, P1712, P2060	Mokteffi A.	1925	Morales A.	P1848
Mirro M.	P2036	Molina M.	P2214	Morales Gonzalez J.R.	P994
Mirzarakhimova S.T.	P1025	Molina M.R.M.	P1187	Morales Parra M.P.	P1562
Mischie A.	P279, P440	Moliner Abos C.	P1174	Morales-Lara A.C.	792
Misegiannidis A.	P2190, P980	Moliner P.	1930, P1571, P1573, P1598, P1722, P1847, P295, P941	Moran B.	1466
Mishkina A.	P1547, P1987	Mollin-Abos C.	P1692	Moran-Fernandez L.	P369
Mishra M.	P635, P636	Mollar A.	1976	Morar F.	P1713
Mishriky M.	P2109	Molokoedov A.A.	P1863	Moratalla-Haro P.	P235
Misikova S.	P249	Molon G.	P1536, P1537	Moravec C.	1466
Mistiaen W.P.	P2138	Molvin J.	49	Morbach C.	1286, 46, P2016, P264, P265, P268, P269
Misuraca G.F.	P308	Momomura S.	P1770	Morcillo-Hidalgo L.	P1128, P1181, P1578, P1620, P1805
Mitea R.	P987	Monaghan M.	P1630	Moreau A.	P1873
Mitrofanova L.	P2146	Mondillo S.	P365	Moreira C.P.	P1575, P2038
Mitrovska S.M.	P2067	Monereo Munoz D.R.	P1599	Moreira E.	P1749, P2059
Mitsiadis S.	P1163	Mongillo M.	1470	Moreira J.I.	35, P1088, P1809, P1813, P2131, P2170, P2229, P555
Mitsiou G.	1341	Monica Perez Serrano M.P.S.	P1198	Moreira L.F.P.	P629
Mitsuke Y.	P1995	Moniz P.	P1022, P1037, P2030	Moreno Escobar E.	P401
Mitsuno M.	P1216	Monmeneu J.V.	683	Moreno Reviriego S.	P1156, P1532
Mitzka S.	P1251	Mont L.	1346, 1349, P2151	Moretti C.	P1213, P1800
Miura M.	P947	Montagna L.	P943	Mori A.	P470
Miura M.M.	P952	Montalto A.	840, P413, P414	Mori C.	P450
Miyata S.	P276, P947	Monteagudo Ruiz J.M.	P2094	Mori S.	P1095, P1618, P1742, P2119
Miyata S.M.	P952	Montefusco A.	P1800	Morillas Climent H.M.C.	P567
Miyata T.	P2062	Monteiro A.	P1616, P294, P885	Morimoto T.	1282, P1105, P1994
Mizuno A.	P1746	Monteiro D.C.	P1743, P1780	Morinaga T.	P1095, P1618, P1742, P2119
Mizuno T.	P391	Monteiro J.	P1522	Morinaga T.M.	P1526
Mizziara G.P.	P2044	Monteiro J.J.	35, P1088, P1809, P1813, P2131, P2229	Morise M.	P1907
Mkhitarian L.S.	P1049	Montenbruck M.	P1633, P282	Moriswala R.	P2101
Mkrтчhyan V.A.	P558	Montenegro F.	P1522	Mormile I.	787
Mlateckova L.	1971	Montenegro Sa F.	1460, P924	Mornos C.	P1545
Mlynska A.	P1644, P323	Montero D.	P1588	Morosin M.	P1091, P363
Mlynski R.	P1644, P323	Montisci R.	P1229	Morovic Vergles J.	P1165
Mo R.	P1596	Montoya Trejos L.	P2026	Morozov A.	P1886
Mocan M.	P399	Montrimas A.	P2110	Morr I.	1323
Mocan R.A.	P506	Monzo L.	1971, P1125, P2079	Mortara A.	P1089, P308, P943, P974
Mocan T.	P1525	Moon I.K.	P248		
Mocan-Hognogj D.L.	P1577, P399	Moon J.	P1082		

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Morton G.D.J.	P2005	Munoz-Garcia M.	P1128, P1181,	Nakamura M.	P2119
Morzhanaev E.	P1542, P246		P1578, P1620, P1805, P2137	Nakamura R.	P1732
Moscalu V.	P1997, P901	Murali M.	8	Nakano M.	P1704
Moscattelli P.	P1608	Murata A.	P441	Nakano Y.	P1679
Moser D.K.	P1841	Murata T.	P1704	Nakao K.	P1704
Moskaleva N.E.	P586	Muratori M.	P1803	Nakashima M.	P348, P470
Moss N.	P378	Muraviev A.	P1860	Nakayama S.	P1079, P452
Mostbauer G.V.	P2009	Muravyev A.	P517	Nakayama T.	P1679
Mosteoru S.L.	P2136	Murbraech K.	1927, P1605	Nakou H.	P1705
Moteea S.	P2051	Muresan E.	P1577	Nalbantgil S.	P1625, P963
Moura B.	P1600, P2059	Muresan I.	P1525	Nalli C.	P371
Mourali M.S.	P926	Murialdo G.	P1608	Namasivayam M.	P1991
Mourilhe Rocha R.	P1747, P1888,	Murillo N.	P1767	Nambiar S.	P317
	P318	Murphy C.	690, P1617	Nanas S.	1338, 1341
Mourilhe-Rocha J.P.	P1747	Murphy D.	P1176, P557	Nanas Sefafeim N.S.	1335
Movig K.L.L.	1289, 687	Murray P.	P1074, P471	Nanasi Jr P.	17
Moya Mur J.L.	P1009, P1127, P1700		690	Nanea I.T.	P1185
Mozos I.	P1551	Musante C.	P1824, P528	Napolitano C.	P243
Mpisiniotis T.	P1162	Mushtaq S.	827	Napolitano F.	P621
Mrdovic I.	P1121, P2006, P2103,	Muslimova E.	P1245	Narayanan S.	820
	P2126	Mussagaliyeva A.	P321, P328	Narendra J.	P486
Mrsic D.	P1054	Mussner-Seeber C.	640	Naruke T.	1481, P908
Mssberg S.	831	Musso N.	P1608	Narusov O.	P1072, P2015
Mueck W.	P1182, P1706	Musumeci F.	840, P413	Narusov O.Y.	P1595
Mueller B.	P450	Musurivskaya T.V.	P1892	Nascimento D.S.	P1274
Mueller C.	1284, 1937, 47, 694, P461	Muthuramu I.	P635, P636	Naseri H.O.D.A.	P1606
Mueller M.	P329, P388	Mys L.A.	P1263	Nasirdinov N.N.	P351
Mueller O.	6	Mystakelis C.	P1729	Nasr G.	P2109
Mueller O.J.	9	Mystakidi V.C.	P2080	Natali A.	P1627, P1757
Mueller-Hennessen M.	P1116	Mytas D.	P2221	Natali B.M.	P365
Mueller-Tidow C.	P2188	Mzoughi K.	P926	Natarajan N.	P1124, P1789
Muensterer S.	P2016	Na J.O.	P1151, P1623, P423	Natividad R.	P1667, P554, P562
Mujaj B.	P425, P967	Naami N.R.	45	Nauta J.F.	1431, 1469, 1931
Muk B.	P1066, P1570, P1602, P591,	Nabais I.	P1022, P1037, P2030,	Navari A.	P443
	P971		P982	Navarin S.	49
Mukash A.	P1844	Nabauer M.	830, 831	Navarrete S.	P1767
Muksinova M.	P2015	Nabeta T.	1481, P908	Navarro-Lopez J.	P1681
Muksinova M.D.	P1595	Nadal J.	P1158, P2189	Navas E.	P1127
Mullabaeva G.	P906	Naderi N.	P1016	Naveed S.	P285
Mullasari A.	820, P245	Nadirbekova G.	P1844	Nawata K.	1425
Mullens W.	1287, 1291, 1420, 1426,	Naffati M.A.H.M.U.D.	P2040	Nawrocka-Millward S.	P2090, P454
	692, P266, P376	Nagatomo Y.	P1746	Nay T.W.	P493
Mulzer J.	P329, P388	Nagel E.	P1137	Nayor M.	P1991
Muniz Garcia J.	1928	Nagpal D.	P1146, P1149	Nazarzadeh M.	686
Munoz Calvo B.	P1220, P1681	Nagy A.J.	P289	Nazir T.	P2040, P946
Munoz Garcia A.J.	P1128, P1181,	Nagy I.	P1882, P2157, P297, P579	Neagu M.S.	P1641
	P1578, P1620, P1805, P2137	Nagy L.	17	Nechaev I.A.	P1141
Munoz M.A.	P2027	Nagy V.	P1164, P1882, P2157, P297,	Nedkova M.	P2017
Munoz R.	P1655, P992		P579	Nedostup A.V.	1967, P1141, P1807,
Munoz-Garcia E.	P1128, P1181,	Nair D.G.	P468		P1810, P2150, P251, P407, P519
	P1578, P1620, P1805, P2137	Nair T.I.N.Y.	P484	Negishi K.	P1811

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Negru-Cemortan R.	1331	Nieto Sanchez A.	P2102	Novak K.	P473
Nei S.	P2181	Nietzsche S.	P1265	Novak K.M.	48
Neil C.	P2101	Nihoyannopoulos P.	P287, P910,	Novak P.	P1242
Nekolla S.G.	P1877		P978	Novakova T.	1429
Nel S.	P1640	Nikitin I.	P1592	Novgorodskij V.A.	P442
Nelson C.	P2101	Nikitin I.G.	P2054, P278, P597	Novikova S.	638
Nelson C.P.	1929	Nikitin N.	P2036	Novitskii N.	P632
Nelson L.	P355	Nikitina I.	38	Novo G.	P1137
Nemec P.	1429, P2216, P383	Nikolaev V.	791	Novo Garcia E.	P1150, P1532
Nemes A.	P1250	Nikolaev V.O.	P1236	Novoa M.J.	P1767
Nemeth E.	P511	Nikolaeva O.	P372	Nowak S.	P1921
Nepaul D.N.	P1699	Nikulin D.	P1837, P1838, P1858	Ntalianis A.	1338, P1162, P2187,
Nerlekar N.	639	Nikulina S.	P1837, P1838, P1858,		P2190, P980
Nervo A.	P1158, P2189		P563, P571	Ntelios D.	P1875
Nesi L.	P1757	Nikus K.	P575	Nudchenko O.	1978
Nessler J.	P1064, P1264	Nilsson I.	P631	Nugara C.	P1021, P1137
Neto A.	P1102, P1194, P1195, P1197,	Nilsson P.M.	P2113, P2161	Nugroho A.	P946
	P1564, P2246	Ninkovic V.	P253	Nugroho D.T.W.	P1614
Netti L.	P1613, P939	Nishihata Y.	P2047	Nunes A.	P1749, P1774, P2089,
Netticadan T.	P623	Nishiyama N.	P1907		P2091
Netuka I.	841, P1032	Nishkumay O.I.	P2009	Nunes Ferreira A.	P2175, P534
Neuzil P.	P405, P596	Nisser J.	1339, P1265	Nunes-Ferreira A.	P1701,
Neves J.P.	1961, P536	Nitin Kumar K.	P486		P1799, P1801, P1819, P1820, P2142,
Neves W.C.	P1780	Niyazova C.	P887		P304, P903, P909, P981
Nevmerzhyska L.	P1817, P2243	Nizami H.	P1247	Nunez Angulo A.	P261
Newbold K.	1487	Noack T.	P1802	Nunez J.	1930, 1976, 683, P1092,
Newsome S.	P1648	Nobre Menezes M.	P1799		P1589, P1598, P1722, P295
Ng C.T.	P1027, P381	Nobre-Menezes M.	P1801, P2142	Nunez Piles C.N.P.	P567
Ng L.L.	59, P259	Nochioka K.	P276, P947, P952	Nunn C.	159
Ng M.	828	Nodari S.	P308, P976	Nunura F.	P1699
Nganou Gnjindjio C.N.	P1717	Noe A.	1284, 694	Nurmykhametova Z.	638
Ngernsritrakul T.	P915	Noemi Ramos Lopez N.R.L.	P1191,	Nurmykhametova Z.H.A.	P1844
Nguyen Chi T.H.A.N.H.	P1028		P1198	Nuruddin A.A.	679
Nguyen Huu D.U.C.	P1028	Nogueira M.A.	P982	Nuti R.	P1067, P2085
Nguyen T.L.	P2054	Nolan P.	703	Nybing J.	P466
Nguyen Thi Thuy H.A.N.G.	P1028	Nolin M.	P2108	Nyeki C.S.L.	P971
Nguyen Thi Tuyen T.I.E.N.	P1028	Nomoto K.	1337, P1718, P346, P438	Nyeki L.C.S.	P591
Nickenig G.	829	Norberg H.	1938	Nyeki P.	1478
Nicoli F.	827	Nordberg Backelin C.	P1708	Nyolczas N.	P1066, P1570, P1602,
Nicolo F.	840, P413	Nordkin I.	P1919		P2157, P579, P591, P971
Nicolo Salvi N.S.	P1635	Nores M.	P1033, P1087	O'Connell E.	61
Nicula A.	1329	Noriega Sanz F.	44	O' Donoghue E.	P983
Nicula A.I.	1962	Norrelund H.	1280	O' Dowling C.	P983
Niedziela J.T.	P1636	Norton N.	792	O' Hanlon R.	P1759
Nielsen J.C.	P989	Norvilas R.	P1899	O'Neill W.	828
Nielsen O.W.	P466	Nosova V.	P465	Oberdorf-Maass S.U.	1467
Nielsen R.	57	Nossikoff A.	1969, P2235	Obici L.	P518
Nielsen R.R.	P1629, P275, P989	Noutsias M.	P2035, P2140, P2141,	Ocampo Gonzalez M.D.	37
Nieminen M.	P1787		P385	Ochiai M.	P1070, P1101, P462
Niemira M.	P1559, P502	Novak J.	10, 1429, P937, P949	O'connell E.	1935, P991, P996
Niessner A.	P262	Novak J.F.	54, P1243	O'connor D.	1466

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
O'connor L.	690, P1041, P1665, P393, P394	Oliver-Ruiz J.M.	P235	Osipova S.S.	P1880
Odenstedt J.	206, P492	Olivier A.	P1778	Osmolovskaya T.	P1550
Oehl U.	P1270	Olmos Blanco C.	P1576, P1581, P1711	Osokpo O.	P1840
Oehman J.	P512	Olmos C.	P2022	Ostadal O.P.	P925
Oerlemans M.I.F.	1424	Olszewski R.	P244	Ostadal P.	P309
Oeverland B.	P1527	Oltra-Rodriguez L.	P1257, P1259, P1260	Osterziel K.J.	P1026
Oeztuerk B.	P1231	Olympios C.H.	P280, P973	Ostgard R.D.	P275
Ofstad A.P.	1278	Omar S.	P1731, P436	Ostojic M.	P1155
O'gara G.	P1665, P394	Omara A.	P879	Ostrovskiy Y.P.	P377
Oghina S.	1925	Omerovic E.	206, 843,	Ostrovsky Y.	39, P1093, P1094
Ogutande A.S.	P2069	P1096, P1106, P1109, P1785, P300,		O'sullivan C.	P2083
Ogurkova O.N.	P1069, P263, P920	P482, P492		Osyadla E.	P446
Oh B.H.	51, P1110, P2112, P2116	Omori M.	P1675, P1683	Ota H.	P276
Oh D.-J.	P238	Onciul S.	P1217, P602	Ottenheim C.O.	P1872
Oh G.C.	51	O'neill J.	P1663	Otterspoor L.C.	708
Oh J.	1968, P986	Onel M.	P279, P440	Ou B.	1486
Oh J.H.	P1580, P2160, P950	Oneto Otero J.	P1555	Ouwerkerk W.	1281, 1285, 1931, P1726, P2007, P469, P954
Oh J.K.	P1131, P2007	Ong H.Y.	P2007, P954	Ovchinnikov A.	P1656
Oh J.W.	P1567	Ong S.H.	P487, P493	Ovchinnikov A.G.	P1686
Oh S.I.	P248	Ongjoco E.	P1738	Ovchinnikov M.V.	P1863
O'hare D.	P991, P996	Onishchenko V.	1328	Ovize M.	P1031
Ohashi N.	P2234	Onishi N.	P1679	Owen R.	P1648
Ohtsuki N.	P1995	Onishi T.	P2062	Oyama Y.	P1070, P1101, P462
Oikonomou E.	P1129, P2080, P281	Ono M.	1425, P1070, P1101, P462	Ozabalova E.	P1140, P383
Oishi S.	P2062	Ooki T.	1481, P908	Ozasa N.	1282, P1105, P1994
Ojrzynska N.	P1646	Oosterveer F.T.P.	P1634	Ozbaran M.	P963
Okabe T.	P1070, P1101, P2234, P462	Opolski G.	P2176, P911, P968	Ozcan M.	63
Okonko D.	P1630	Oppelt J.	1429	Ozdogan O.N.E.R.	P2143
Okovityi S.V.	P2197	Oras J.	843	Ozeki M.	P452
Oksen D.	P2108	Orban M.	830, 831	Ozel E.R.D.E.M.	P2143
Okuhara Y.	P1216	Orczykowski M.	P1202	Ozerkan Cakan F.	P1625
Okuno T.	P1079	Ordonez-Llanos J.	P965	Ozhan O.N.U.R.A.L.	P1240
Okwose N.C.	P253	Orea Tejada A.	P1538, P1719, P314, P330, P331, P340	Ozieranski K.	P911, P968
Olah A.	17, P1249, P1889, P633	Orea- Tejada A.	P2061	Ozkalayci F.	P273
Olajossy B.	P1921	Orea-Tejada A.	P1065, P1740, P2063, P2072, P416, P418, P419, P420, P421, P424, P427, P428	Ozkan M.	P514
Olalde-Roman M.J.	P1773	Orihuela Martin J.M.	P1601	Ozturk P.	P963
Oldenburg O.	1417, P1720	Orlova I.	P2002	Paar V.	P1865, P352
Oleinikov V.	P342, P344, P894, P923	Orlova I.A.	P2029	Pabel S.	791, P1241, P1870
Olesen A.	P466	Orlova Y.	P585	Pablo Garcia Pavia P.G.P.	P1098, P1104
Oliva Damaso N.	P552, P553	O'rourke B.	P2207	Pablo Garcia-Pavia P.G.P.	P1099
Oliveira E.	P2142	Orru P.P.	P1225, P402, P593	Pachicano- Romero L.V.	P1065
Oliveira I.	P1102, P1194, P1195, P1197, P1564, P2246	Orso F.	P1014, P917, P979, P984	Pachicano-Romero L.	P2063, P2072, P418
Oliveira L.	1468	Ortas Nadal M.R.	P883	Pachicano-Romero L.V.	P416, P419, P421, P424, P427, P428
Oliveira L.F.L.	P1877	Ortega Trujillo J.R.	P994	Padzheva T.M.	P597
Oliveira M.	678, P1522, P1684, P1852, P303	Ortiz-Bautista C.	1928	Paez-Rubio I.	1333
Oliveira-Santos M.	P476	Orus-Puigvert J.	P1658, P1671	Pagava Z.	1342
		Osana C.	P2030		

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Pagliaro B.	826, P1694	Papa I.	P976	Park H.W.	P1081, P1993, P458
Pagnan L.	P1142, P936	Papachristoforou E.	P1715	Park J.B.	P1111, P233, P977
Pagnoni N.	P943	Papadaki A.	P1894	Park J.C.	P1081, P458, P918
Pagnotta P.	826, P509	Papadopoulos A.	P1894	Park J.H.	P1111, P1131, P2125, P233, P977
Paikousis L.	706	Papadopoulos C.	1341	Park J.J.	641, P1111, P1590, P233, P461, P977
Paimes J.M.	P368	Papadopoulos Costas P.C.	1335	Park J.R.	P1993
Pais J.	P1528	Papadopoulos D.	P1705	Park J.S.	P1580, P2160, P2195, P950
Pakerov V.	P2233	Papadopoulos E.	P2187	Park J.Y.	P1138
Palau P.	1976	Papafanis T.	P2221	Park K.H.	1477, P2185
Palau Sampio P.	P1589	Papaloannou F.	P1154	Park K.Y.	P1673
Palazzuoli A.	P1067, P2085	Papaioannou S.	P274	Park M.S.	1457, P1171
Paldino A.	P2219	Papakonstantinou P.	P876	Park S.H.	P1138, P1827
Palermo A.	P414	Papanastasiou C.	P1129	Park S.J.	P1151
Palicka V.	P1078	Papanicolaou K.	P2207	Park S.M.	1477, 41, P2185, P2211
Palinkas E.	P297	Papanikolaou P.	677	Park W.C.	1283
Palkeeva M.E.	P1863	Paparo L.	P621	Park Y.	P1151
Palman A.	P1678	Papathanasiou M.	1933, P384	Park Y.H.	P958
Palmieri V.	P943	Papazoglou S.-M.	P287, P910	Park Y.J.	P1073, P1769, P2098
Palmisano A.	P1117	Papp Z.	1290, 17, P1241, P1249, P1266, P1878	Parkanyi A.	1478
Paloma Remior Perez P.R.P.	P1098	Pappas L.	P1043	Parker A.	157
Pamies Besora J.	P1174	Pappritz K.	P1252	Parker L.	P2207
Pamies-Besora J.	P1692	Papworth R.	P1617	Parker T.G.	P1254, P543, P628
Pampoukas N.	P2190	Paramasivam G.	P1113, P1603	Parkhomenko A.	P1086
Pan J.	P1223, P345	Parameshwar J.	639	Parlakpinar H.A.K.A.N.	P1240
Panagopoulou N.	1338, 1341	Paraskevaïdis I.	P1162, P2187, P2190, P980	Parshin V.D.	1967
Panah L.	P1991	Paratsii O.	1328	Parthenakis F.	P1162, P1583, P1583, P1705, P876
Panaïtescu E.	P1133, P2144	Paravati V.	P1125	Paschou E.	P239
Pandhi P.	205	Parazs N.	P361	Pascual Figal D.	47
Pandrc M.	P541	Parcharidou D.	P1875	Pascual Izco M.	P1178, P1228, P1674, P2094
Panduranga P.	P1776, P1777, P490	Pardini B.	P2196	Pascual Lopez A.	P2053
Pandurangî U.	P245	Pardo A.	P1798	Pascual Tejerina V.	P271
Panelo-Rubio M.	P1658, P1671	Pardo Aparicio E.J.	37	Pascual-Figal D.	1284, 694
Paneni F.	P2199	Pardo Sanz A.	P2094	Pascual-Figal D.A.	P1257, P1259, P1260
Pani A.	P1225	Parentica J.	P2122, P309, P461	Pashchenko E.V.	P1053
Panico C.	826, P1694	Parentica P.J.	P925	Pashkevitch S.	P2128
Paniczko M.	P1559, P502	Parildar Z.	P963	Pasoïu D.	1462, P1204, P2000
Panjrath G.	198, 53, P1753, P472, P477	Parisi V.	P243	Pasquali D.	689
Panjrath P.	P1745	Parissis J.	P1043, P1055, P1549, P1787, P564	Pasqualucci D.	P402, P593, P943
Pankova N.	P2210, P626	Park B.	P1073	Passafaro G.	P974
Pannarale G.	P1125	Park B.E.	P1769, P2098	Passino C.	1327, 1482, 1939, P1733, P2055, P250, P250, P250, P443, P930
Panov V.V.	P527	Park C.G.	P1151	Passos L.C.S.P.	P1743, P1780
Panova Y.G.	P1572, P892	Park C.K.	P1827	Pastor Fuentes A.	P261
Pantano A.	P526	Park C.S.	P1118, P1590, P290, P608	Pastorini G.	160
Panteeva E.V.	P430, P433	Park D.G.	P238		
Pantos C.	P287, P910	Park E.J.	P1151		
Pantouli F.	1471	Park H.	P1081, P458		
Pantsios C.	P1549	Park H.J.	P918		
Pantziou A.	P2014, P2024, P929	Park H.S.	P1073, P1769, P2098		
Paolillo S.	P1012, P449, P998				
Paolo Severino P.S.	P1635				



# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Pastor-Pueyo P.	676	Pende A.	P1608	Pernas S.	P277
Pasztorne Toth E.	P1878	Pende M.	1470	Pernias V.	P1092
Patel C.	642	Penders J.	P266	Perrino C.	P2203
Patel M.R.	642	Penicka M.	P234, P497	Perrone Filardi P.	P449, P998
Patel N.	1977	Pennell D.J.	P1648	Perry A.	64
Patel N.R.	P2043	Pepe A.	P1137	Pershina E.S.	682
Patel P.	P2088	Pepi M.	P1803	Persson M.	P2161
Patrascu N.	1962, P1641, P2245	Pepoyan S.	P613	Pervoushina J.	P2104
Patrianakos A.	P1583, P1583,	Perbellini F.	P1251	Pervunina T.	P1886, P1887, P2238,
	P1705	Perea Egido J.A.	P913		P517
Patru A.-E.	P2225	Perea J.	P261	Pessoa F.	P629
Patsilinakos S.	P2123	Pereda D.	P2151	Pessoa F.G.	P1884
Patti F.	1330	Peregudov I.	P1542, P246	Petchina I.V.	P400
Paula Martinez Santos P.M.S.	P1191,	Peregudova N.N.	P1044	Petelina T.I.	P341
	P1198	Pereira A.	P1528	Peters F.	P1640
Paule A.J.	P1166	Pereira A.R.	34, 823, P1132, P1540,	Petersen L.C.	P1575, P2038
Pavez-Giani M.G.	1467		P1883, P1914, P457	Petra D.N.	P1218
Pavlakí N.	P1236	Pereira G.	P495, P630, P890	Petracci B.	P1536, P1537
Pavlenko E.V.	P519	Pereira H.	34, 823, P1132, P1528,	Petraglia L.	P243
Pavlovic A.	P448		P1540, P1883, P1914, P457	Petrak J.	P2206
Pavlyukova E.N.	P500	Pereira J.	P1616, P1741, P294,	Petrauskiene B.	P600
Pavo N.	10, 54, 835, P1243, P2193,		P556, P885	Petrescu L.	P1545
	P937, P949	Pereira Oliveira I.	P2025, P319	Petridou M.	P1154, P274
Payan Lopez J.	P553	Pereira S.	P304, P903	Petrie M.	P1617
Pearce L.	P1630	Pereiro Gonzalez S.M.	P1579,	Petrie M.C.	1932, P1594, P254
Pecherina T.	P1794		P2100	Petropoulos I.	P2190
Pecora D.	P1536, P1537	Perera R.	P564	Petropoulou E.	P1857
Pedersen L.	P466	Pereyra E.	676	Petropoulos I.P.	P980
Pedraza L.L.	P1193	Pereyra L.	P335	Petrou E.	P1856
Pedrinelli R.	P1627, P1757	Perez A.	P1601	Petrov P.	P2132
Pedro M.M.	P304	Perez Cortes G.K.	P1740	Petrova V.	P2232
Pehlivanoglu S.	P273	Perez De Nanclares M.	P1667,	Petrovic D.	P1551, P398
Peinado Peinado R.	P1532		P554, P562	Petrovic I.	P386
Peinado-Peinado R.	P235	Perez Garcia C.N.	P1045, P1576,	Petrovic M.	P390
Peiro Aventin B.	P883		P1581, P1711, P2022	Petrovic-Djordjevic I.	P1046, P448
Pelaez Hernandez V.	P1538, P314,	Perez Guerrero A.	P883	Petru J.	P405, P596
	P331, P340	Perez Marin J.C.	P1601	Petru Ioneni Z.	P1900
Pelaez-Hernandez V.	P1065, P1719,	Perez Padilla R.	P1538	Petersen K.I.P.	P1806
	P2063, P2072, P416, P418, P419,	Perez Ramirez D.R.	P1599	Pettit S.	639, P1214, P2215, P286
	P420, P421, P424, P427, P428	Perez Rivera J.A.	P271	Petursson P.	P1106, P1109, P492
Pellegrino M.	P1694	Perez Serrano M.	P1045, P1191,	Petutschnigg J.	P425
Peller M.	P911, P968		P1576, P1711	Petyunina O.V.	P1792, P1795, P2127,
Pellicori P.	1973, 1974, 199, P1617,	Perez Villa F.	P1230, P368, P598		P343
	P1626, P288, P425	Perez-Riera A.R.	P575	Peyrat Benitez J.L.	P1532
Pemberthy Lopez C.	P1215	Perez-Villa F.	1349, P2151, P2217,	Pfeffer T.J.	1926, P1735
Pena Conde L.	P544		P434, P561	Pfeffer T.J.	P489
Pena L.	P1157	Pergantis P.	P388	Pflugfelder P.	P1149
Pena Ortega P.	693, P1015, P559,	Perge P.	1474, 834	Phan T.H.	P1205, P2226, P2227,
	P994	Peric M.P.	P386		P607, P611, P614
Pencina M.	P2176	Perna E.	P1024	Phan Thanh T.H.U.	P1028
Penco M.	P308	Perna E.R.	P1821, P1825, P335	Pharithi R.	P1176, P557

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Pharithi R.B.	P2033, P996	Pinto R.	P1797, P301	Pohludkova L.	P2122
Pharithi R.B.	1935, P1748, P2050,	Pinto-Do-O P.	P1274	Poiares S.	P1194
	P991	Pio Loco C.	P1597	Pokorski S.C.S.	P1193
Phelan D.	1466	Piotrowicz E.	P2176	Pokrovskaya M.S.	P1996, P1998,
Phen P.	P332	Piotrowicz R.	P2176		P1999
Philippou K.	P1851	Piper S.	197	Pokushalov E.	P1542, P246
Piacenti M.	P250, P250, P250	Pirazzi C.	843	Polcz M.	P2049
Pianca N.	P619	Pires I.	P495, P630, P890	Polgar B.	P591
Piatrovich N.	39, P1093, P1094	Pires I.F.	P1274	Poliakova A.A.	P2147
Piazza V.	P413	Pires M.I.	200	Polito M.	P1013
Piazzani M.	P976	Pirk J.	P1032	Polkowska-Motrenko H.	P1237
Picard F.	P2021	Pirla M.J.	P1174, P2053	Pollock M.	P574
Picariello R.	P298	Pirla-Buxo M.J.	P965	Poloczкова H.	P1140, P383
Piccinino C.	1330	Pirlimarla P.	P2237	Polonetsky O.	43, P1550
Piccone Saponara L.G.	P1150, P1152,	Pirozzi E.	P998	Polovina M.	P1046, P2006, P2103,
	P1156, P1532	Pisani M.	P974		P448
Pidello S.	P2196	Pisarenko O.I.	P1863	Poltavskaya M.	681, P1678
Piek A.	P1248	Pisaryuk A.	P1126, P1134	Poltavskaya M.G.	P1645, P2001
Piekarski E.	1347	Pisimisis E.	P1163	Poluszynska D.	36
Pieme A.C.	P1717	Pistulli R.	P1865, P352	Polyak M.E.	P2150, P519
Piepoli M.	P449	Pitt B.	199	Polyakov D.S.	P2020, P2023, P932,
Piepoli M.F.	160, P308	Pittaras T.	1341		P953
Pierangelo B.	P270	Pitthan E.	P325, P960	Polyakova A.	P1136
Pierrard R.	P1691, P1698	Pivetta E.	P298	Polyakova E.A.	P503
Pieske B.	P1553, P2200	Pivodic A.	P1708	Polyanskaya E.	P1051, P1712, P2060
Pieske B.M.	P893	Pizanis N.	P384	Polychronopoulou E.	P1855
Pietsch H.P.	P522	Pizarro C.	40	Polymeropoulos K.	P404
Pietsch S.	1926	Pizzolito S.	P2219	Polzl G.	1290
Pigeon S.	P252	Placido R.	P1819, P1820, P534,	Pomerantseva E.	P581
Pighi M.	P509		P903	Ponikowski P.	1417,
Piherova L.	1484, P2155, P938	Planinc I.	P387	P1143, P1720, P1812, P1874, P2058,	
Pilecky D.	P591	Plante-Bordeneuve V.	1925		P2090, P437, P454
Pilichou K.	1470	Plataki M.	P1705	Poniku A.	P1122, P1724, P1781,
Pilotzi Montiel Y.	P314, P330, P340	Platania A.	842		P2068
Pilotzi- Montiel Y.	P2061	Platon P.	P1895	Ponomariov V.	P1208
Pilotzi-Montiel Y.A.	P2072	Platunova I.	P1837, P1838, P1858	Pontaga N.	199
Pilz P.M.	P2199	Platz E.	204	Ponticelli F.	P1117
Pimentel R.	678	Plaza Martin M.	P1228, P2094	Pontis F.	P619
Pindak M.	841	Pleava R.	P2136	Ponz I.	P1655, P992
Pineda-Sanchez C.	P1065,	Plisuk A.	P2002	Ponz-De Antonio I.	P369
	P2063, P2072, P416, P418, P419,	Ploski R.	P1202	Pop D.	P1713, P336, P432, P506
	P420, P421, P424, P427, P428	Pluhacek T.	P2206	Pop R.F.	P1530
Pinho A.	P914	Plymen C.	P2046, P978	Popescu B.	P1815, P2240
Pinho-Gomes A.C.	686	Poaires S.	P1195, P1197	Popescu B.A.	1329, P1139, P1828,
Pini D.	826, P1694, P308, P509	Podesser B.K.	P1868, P2199		P2163, P2225, P2244
Pino J.E.	P1033, P1087	Podesser B.K.	P1859	Popescu L.	P1584, P1836
Pinto F.J.	P1701, P1799,	Podolec P.	1485, P2152	Pop-Moldovan A.	P1779, P279,
P1801, P1819, P1820, P2142, P2175,		Podzimkova M.	P358		P440
P304, P534, P903, P909, P981		Poelzl G.	640	Popolo Rubbio A.	P2039
Pinto P.	P1102, P1564, P2025,	Poggio D.	P974	Poposek K.	P299
	P2246, P319	Poglitisch M.	54	Popov S.	P1987

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Popov S.V.	P1268, P373	Prokopova L.V.	P1611, P934	Quinn S.	P1554
Popov T.	P390	Prontera C.	1482, 1939, 47	Quino V.	P1821, P1825
Popovic V.	P2078	Proplesch M.	204	Quintana Da Silva M.A.	P1764
Popovska-Petrova M.	P2132	Prosvirnin A.V.	P1863	Quintana E.	P2151
Porcari A.	P1142	Protasov V.	P1072, P2015	Quintao S.	P1755, P2030
Porcu M.	P1225, P402, P593	Protasov V.N.	P1595	Quintas L.i964, P1667, P554, P562	
Porszasz R.	17	Protasova D.	P1072, P2015	Qureshi A.	P2237
Porto I.	P2071	Protasova D.E.	P1595	Raafs A.G.	1980, 56, P257
Portoles M.	18, P1881	Protopapas A.	706	Raaz U.	P1272
Portoles Ocampo A.	P883	Proudfoot C.W.J.	P306	Rabago-Juan Aracil G.	P561
Portugues J.	678	Provencher Couture H.	P1707	Rabai M.	P1903
Potapov E.	P329, P388	Pryakhin A.	P1638	Rabaie M.	P2154
Potekhina A.V.	P1686	Prybylskaya V.	P887	Rabelo-Silva E.R.	707
Potena L.	P1697	Pryds K.	P1629, P275, P989	Rabelo-Silva E.R.	P1193, P1207
Poulakida .	P1855	Prykhodko O.	P1261	Rachidi S.	P1672, P1676
Pouleur A.C.	643, P350	Prystrom A.	P577	Rachina S.A.	P1731, P436
Poulsen S.H.	1280	Psarra K.	1341	Rachok L.	43, P1560
Pousinho F.	P1852	Pucci M.	P1613, P939	Racz K.	P511
Povalyaev N.	P1126, P1134	Puchalski M.	P1559, P502	Radenkovic D.	P565
Povolotskaya I.	P581	Puchinyan N.	58	Radoicic D.	P386
Poznic S.	P1693, P299	Pudil R.	P1078	Radovits T.17, P1249, P1250, P1266,	
Prabhakar P.	P1256	Puertas M.	P1848	P1889, P633	
Prameswari H.S.	P874, P875	Pueyo-Balsells N.	676	Radu R.	P1199, P1895
Pramil V.	P379, P382	Pugh P.J.	P1543	Radu R.A.	1962
Prasad S.K.	P1648	Pugliese N.	P1627, P1757	Radu R.I.	P1909
Prastaro M.	P998	Puhl S.L.	P1861	Radulescu C.I.	P1898
Prat S.	1346	Pulido Adragao F.	P2030	Raev D.	199
Pratesi A. P1014, P917, P979, P984		Pulignano G.	P943	Raffaelli A.	P1100
Prausmueller S.	54, P1243	Puntmann V.O.	P1137	Raffel C.	828
Predebon V.	P2038	Puppo F.	P1608	Rafila S.A.M.I.R.	P1695
Predescu L.	P1199, P1909	Purmah Y.	P1076	Ragel A.S.	1332
Preiksaitiene E.	P1899	Purohit S.	P1992	Ragimov A.A.	P1141
Premji S.	P1682	Puschita M.	P1779	Rahimi K.	686
Preve-Castro V.M.	P1773	Pushkarev G.S.	P409	Rahmani L.	P1554
Prevete N.	P624	Puticiu M.	P279, P440	Raj P.	P623
Prieto S.A.	P1923	Pya Y.	638	Rajab M.F.M.	P1737
Prifti E.	P2231	Pya Y.V.	P1844	Rajalakshmi N.	P484
Primo J.	P1522	Pyka L.	P1636	Rajesh R.	P1776, P1777
Prinzen F.W.	P1546, P1989	Qamar N.Q.	P2145	Rajic D.	P2126
Prinzen F.W.	P1544	Qin L.	P317	Rajjoub Al Mahdi E.	P2239
Privalova E.	P1661	Qodirova N.I.	P351	Rajjoub Al-Mahdi E.	P1228
Privalova E.V.	P1880	Quadrado M.	P1528	Rakhit R.	1977
Privalova E.V.	P586	Quagliariello V.	788	Rakhmanov D.K.H.	P292
Priyadarshni S.	P1048	Quaini F.	P1869	Rakisheva A.	1342, P1112, P321,
Priyana A.	P2106	Quaranta M.	P1821	P328	
Prochota B.	P1006, P1189	Quevedo Nelson V.	693, P559,	Ramakrishnan D.	P1682
Proclemer A.	P2219		P994	Ramani F.	P1597
Proctor T.	1476	Quiaoit Y.	P2214	Ramesh D.	P486
Proenca G.	P1600	Quiaoit Y.A.	P1187	Ramires F.J.A.	P1884, P629
Proenca G.M.M.	P982	Quijano Martinez N.	P1562	Ramirez-Arias E.	P312
Prohorova Y.	P582	Quiles-Recuenco A.	P1681	Ramirez-Escudero G.	P1210

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Ramkumar S.	820	Rea D.	788	Ribeiro O.N.	P1884, P629
Ramon Bover Freire R.B.F.	P1191, P1198	Rea F.	P2028	Ribeiro S.	678, P1684
Ramon J.M.	P1589	Rebenkova M.	P455, P582	Ricciardi E.	P1608
Ramos Jimenez J.	P2094	Rebocho M.J.	P536	Richard S.	P1873
Ramos Lopez N.	P1711	Rebrova T.	P1245	Richards A.M.	1281, P2007, P954
Ramos S.	1961	Recio Mayoral A.	P1650, P993	Richardson A.	P2032
Ramos Tuarez F.	P1033, P1087	Reda A.	P2109	Richerson G.B.	P2055
Ramosaco E.	P1227	Redfors B.	206, 843, P1096, P1106, P1109, P492	Richter D.	P910
Rampidis G.	P274	Redzek A.	P390	Ricke-Hoch M.	1468, 1926, 789, P1735, P1885, P489
Ramshev K.	P1222	Reele S.	P1702	Ridha M.	P1776, P1777
Ramunddal T.	P492	Reeves G.	P2237	Riegel B.	P1841
Ranchordas S.	1961	Refatllari I.	P1227, P2231	Rienstra M.	1929, P1624
Randazzo E.	P1271	Refsgaard J.	P275	Rier H.N.	P1170
Randjelovic-Krstic V.	P541	Regitz-Zagrosek V.	1285	Rigau J.	52
Rangel F.O.D.	P1747	Rego R.	P1734	Rigopoulos A.	P385
Rangel I.	34	Reid L.	P332	Rigopoulos A.G.	P2035, P2141
Rangel-Sousa D.	P359, P370	Reimers B.	826, P509	Rigopoulos A.R.	P2140
Rangrez A.	6	Reimers S.	P893	Rigueira J.	P1701, P1799, P1801, P1819, P1820, P2142, P2175, P304, P534, P903, P909, P981
Rankinen J.	P575	Reina Couto M.	P476	Riha H.	841
Rao C.	12, 5	Reinartz M.	P2177	Riley J.P.	P1759
Rao M.S.	P1113	Reis A.	P1822	Rilo I.	P1667, P554, P562
Rao S.	P1603	Rekvaava R.R.	P1539, P240, P940	Rimkus A.	P474
Rao Y.	P1113, P1603	Remes A.	9	Rinaldi M.	828, P1800, P298
Rapezzi C.	P518	Remmelzwaal S.	56	Rineiska N.	P2128, P887
Raposo A.F.	P982	Ren J.M.	P491	Rios M.	P1797, P301
Raposo L.	822, P536	Rendon Isaza J.C.	P1215	Rios V.	P1825
Rapti K.	9	Reenes E.	P369	Ripoli A.	P250, P250, P250
Rapushi E.	P1227	Rengo G.	689	Rischpler C.	1933
Raquel Lopez-Vilella R.L.V.	P359	Rennefahrt U.	9	Rispoli A.	P1013
Rasmussen J.	57	Repasos E.	P2187, P2190, P980	Ristic A.	P541
Rassaf T.	1933, P384	Repin A.N.	P2133	Rita S.	P1687
Rassi S.	P318	Resende C.	P1774, P2089, P2091	Ritchie Allan C.	P254
Rastagar H.	P379, P382	Reshetov I.	P1876	Ritter D.	16, P2198
Rasulova Z.	P1710	Reshetov I.V.	P1258	Rivadeneira Ruiz M.I.	P1650
Rasulova Z.D.	P899	Ress K.	P2051	Rivas C.	P1571, P1573, P1722, P1847, P1848, P941
Rasulova Z.D.	P1034	Restrepo Siegert A.M.	P2026	Rivas Lasarte M.	1421, 44
Ratajczyk K.	P349	Reti M.	P361	Rivas Regaira X.	P2102
Ratchina S.	P1126, P1134	Revenco V.	P1647, P1920, P2076	Rivas Ruiz F.	P552, P553
Rathore F.	P1748, P2050, P996	Revenko I.L.	P1049, P1725	Rivas-Lasarte M.	P1174, P1692
Ravera A.	1285, 1336	Rexhaj Z.	P1122, P1724, P1781, P2068	Rivas-Molinero M.	P2102
Ravindranath K.S.	P486	Rey J.R.	P544	Rivera A.	P1767
Ravn-Fischer A.	P1096, P1106, P1109	Reznik E.	P2054, P597	Rivero J.	204
Ravnikar T.	P1226, P2018	Rha S.W.	P1151, P2097	Rivero-Jimenez N.	P235
Raymundo-Martinez G.	P1911, P1912	Rhee K.S.	P1637	Rivetti L.	P305
Rayo Llerena I.	P1177, P1178, P1674	Ribadeneira Ruiz M.	P993	Rizk D.	P1019
Rayo-Chavez J.A.	P1773	Ribeiras R.	P1632	Rizos I.	P543
Razavi R.	197	Ribeiro A.	P1741, P556	Rizou E.	P1055
Razin V.	P1077	Ribeiro J.	P1522, P1522		
Razumov K.V.	682	Ribeiro M.	P981		

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Rizzo M.	P1658, P1671	Rojas A.	P913	Rossi L.	1336
Robalo M.	P1175, P914	Rojc B.	P1226	Rossing K.	P2019
Robbinson E.	56	Rojo L.	P1100	Rossing P.	P964
Roberts N.	P564	Rokyta O.I.	P2009	Rosso G.L.	P267
Robertson M.	199	Roldan J.	P378	Roth M.	P1173
Robinson E.	791, P1241	Rollemberg Y.	P1888	Rothenberg M.	P1033, P1087
Robinson H.	P581	Rolong B.	P1767	Rouf R.	P2088
Robles Mezcua A.	P1181	Romaine S.P.R.	1929	Roumpi E.	P1162
Roby G.	P1729	Romanek R.	36	Rousseau M.	P350
Roca J.	P277	Roman-García F.	P1681	Rousseau M.F.	643
Roca M.	18	Romano G.	64	Rousseau M.F.	P957
Roca-Guerrero C.	P1658, P1671	Romano M.M.D.	P1877	Rouzet F.	1347
Roccasalva F.	P509	Romano P.	P1694	Rovai S.	P1012
Rocha B.	1961, 695, P1528, P1632, P1723, P1739, P1755, P2057, P536	Romanov A.	P1542, P246	Rovera C.	P1213
Rodeiro P.	P1168	Romanovskiy D.V.	P377	Royer C.	P1561
Rodgers A.	686	Romero A.	P1667, P554, P562	Royo I.	1964
Rodionova I.	P1790, P2127	Romero Santana F.	P1601	Rozenbaum Z.	1488, P1167, P2191
Rodionova I.V.	P2162, P2164	Romero-Correa M.	1333	Rozentryt P.	P1636
Roditi G.	P254	Rommel K.P.	19, 60, 830, 831, P2008	Rozhnev V.	P1533
Rodrigues G.	P1888	Rommel K.-P.	P1802, P260	Rroji M.	P2171
Rodrigues T.	P1799	Roncon R.	678	Rua-Figueroa Erasquin D.	693, P1015, P559, P994
P1801, P1819, P1820, P2142, P2175, P304, P534, P903, P909, P981		Roncon-Albuquerque R.	P476	Rubino G.	P308
Rodriguez A.L.	P1923	Roque D.	P1826, P530, P531	Rubis P.	1485, P2152
Rodriguez Doyaguez P.	P1220	Ros A.	P1598, P1848	Rudas L.	P1586
Rodriguez Guinea I.	P1152, P1156	Rosales-Castillo K.	P424, P427, P428	Rudenko K.	P1817, P2036, P2243
Rodriguez I.	P1667, P554, P562	Rosales-Castillo K.L.	P1065, P420, P421	Rudenko Y.V.	P2009
Rodriguez L.	P544	Rosales-Castillo K.L.	P2063, P416, P418, P419	Ruehs H.	P1553
Rodriguez M.J.	37, P1767	Rosano G.	1975	Ruggiero N.J.	P2237
Rodriguez Pichardo Y.R.P.	P567	Rosas F.	P1522	Ruiwo C.	1460, P924
Rodriguez Pulido A.L.	P1562	Rosas-Peralta M.	P312	Ruiz Aranjuelo A.	P883
Rodriguez Rohwain V.	P1100	Rosca M.	P1815	Ruiz Bustillo S.	P1221
Rodriguez Serrano J.G.	P985	Roselli C.	1929	Ruiz Garcia M.P.	P993
Rodriguez-Roda Stuart J.	P1127	Rosello-Lleti E.	18, P1881	Ruiz Garcia P.	P1650
Roehrich L.	P329, P388	Rosen R.	1488	Ruiz Gomez L.	P1210
Roessig L.	P1553	Rosen S.	1487	Ruiz Irastorza G.	1964
Rogers J.G.	642	Rosenfeld I.	P1919	Ruiz Mateas F.	P552, P553
Rogovskaya Y.	P455, P582	Rosenfeld N.	P296	Ruiz Ruiz V.E.	P985
Rogovskaya Y.U.V.	P499	Rosengren A.	P447	Ruiz S.	52
Rogovskaya Y.U.V.	P1219	Rosianu H.	P506	Ruiz-Cantador J.	P235
Rogovskaya Y.V.	P1069, P255	Rosillo S.	P1157	Ruocco G.	P1067, P2085, P267
Roguín A.	198, 53, P1745, P1753, P472, P477	Rosillo S.O.	P544	Rupert A.	P1729
Rohde L.E.P.	707	Roslan A.	P2111, P487	Ruppert M.	P1249, P1889, P633
Rohrer U.	P1557	Ross H.J.	P2019	Rus Mansilla C.	P1001, P1003
Roibu C.D.	P901	Ross J.	1334	Ruschel K.B.	707
Roig E.	P1174, P1692	Rossari F.	P1733	Ruschitzka F.	P1588, P1910, P412
Roig Minguel E.	1928	Rossi A.	P1824, P267, P528	Rusnak A.	1328
Roig Minguell E.	1421, P2053, P965	Rossi J.	P1089, P974	Russell S.	642
Roig-Minguell E.	P561			Russell-Hallinan A.	1466
				Russo A.	P1697
				Russo A.M.	P242

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Russo A.M.	P1534	Saguner A.M.	P412	Salman T.	P1814
Russo G.	P2028	Sahin T.	P1659, P241	Salpagarova Z.K.	P1203
Russo M.	P243, P621	Sahiti F.	P264, P265, P268, P269	Salpeas V.	P543
Rustamova F.Y.	P1061	Sahođa D.	P1716, P2073	Salterain N.	P1168
Rustamova Y.	P1631, P1730	Saidova M.	P1990	Saltos F.	P1100
Rustarazo Garcia Y.	P1001	Saito J.	P1070, P1101	Saltzberg M.	1428
Rutten F.H.	P1607, P891	Saitou J.	P462	Salvadori C.	P1271
Ruzov V.I.	P256, P498, P880	Sajgalik P.	P463	Salvioni E.	P1012, P1803, P449, P998
Ruzzier C.	1483	Sakakura K.	P1770	Salyamova L.	P342, P894, P923
Ryabov V.P455, P582, P895, P905		Sakamoto T.	P1130, P1704	Salzano A.	689
Ryabov V.V.	P1069, P1219, P255, P499, P500	Sakane K.	P1079, P452	Sama I.	P1726
Ryabova T.	P895, P905	Sakata Y.	P952	Sama I.E.	1285, 1336, 1469, 1929
Ryabtseva O.	P1656	Sakuragi S.	P348, P470	Samani N.J.	1929
Ryan F.	P1176, P557	Sala M.	1472	Samara A.	P1851
Rychlak R.	P1264	Sala V.	P621	Samaras A.	P239, P549
Rylova A.K.	1340	Salah K.	708	Samardzic J.	P387
Rypdal K.B.	P1253	Salam A.	686	Samburg Y.J.	P1790
Rysev A.V.	1332	Salamanca J.	P913	Samko A.	P1876, P618
Ryu K.H.	1457, P1171, P1619, P422	Salamanca-Bautista P.	1333	Sammani A.	1476
Ryu S.K.	P1138, P548	Salamova L.A.	P341	Sammoud K.	P926
Ryu S.K.R.	P1524, P546	Salar Silvestre A.	P1221	Samuel G.	P1988
Rywik T.	P878, P966	Salari S.	1966	San Martin Gomez M.A.	P1152, P1156
Ryzhkov A.	P2146	Salauyou D.	P1550	Sanchez A.	P1655, P2151, P992
Saad S.	P1783	Salazar L.	40	Sanchez Ramos J.G.	P401
Saadatmand A.R.	P1270	Saldarriaga C.I.	685, P1604, P1615, P1767, P2012, P2026, P324	Sanchez Santillan R.	P1538, P314, P330, P331, P340
Sabatier R.	P2180	Saldarriaga C.L.A.R.A.	P1766	Sanchez -Santillan R.N.	P2072
Sabbah H.N.	15, P2201, P2202	Saldarriaga Giraldo C.I.	P1215	Sanchez- Santillana R.	P2061
Sabian I.S.	P487, P493	Salden F.	P1544	Sanchez V.	P369
Sabrawi T.A.	P874, P875	Salden F.C.W.M.	P1989	Sanchez Vega J.	P315
Sabti Z.	47	Saldiva P.H.N.	P1884	Sanchez Vega J.D.	P1178, P1228, P1674, P1688, P2094, P2239
Sadauskiene E.	P1900	Saleh Y.	1458, P1018	Sanchez-Alonso J.	P1242
Sadeh B.	832	Salem A.	159	Sanchez-Lacuesta E.	18
Sadik Z.G.	P2045	Salemi V.M.C.	P629	Sanchez-Lazaro I.S.L.	P1147, P1148
Sado D.	P1630	Salerni S.	P1628	Sanchez-Perez M.C.A.	P1257, P1259, P1260
Sadowski J.	P1921	Salgado Aranda R.	P271	Sanchez-Ramirez C.	P990
Sadreddini M.	P2222	Salgado Fernandez F.	P330, P331, P340	Sanchez-Sanchez C.	1333
Saez De La Maleta Ubeda R.	P271	Salgado- Fernandez F.	P2061	Sanchez-Santillan N.R.	P416, P427
Saez J.R.	P606	Salgado-Fernandez F.	P1719	Sanchez-Santillan R.	P1719
Saez Moreno R.	P594, P610	Salgado-Fernandez M.F.P420, P421		Sanchez-Santillan R.N.	P1065
Safarova A.	1479, 680, P1126, P1134, P1591, P2169, P496	Salgado-Fernandez M.F.	P2063, P2072, P419, P424, P427	Sanchez-Santillan R.N.	P424, P428
Safarova N.	1479, P2169	Salido Tahoces L.	P1798	Sanchez-Sosa J.	P445
Safiullina A.A.	P372	Salih M.	P2212	Sande L.O.K.	P1527
Safonova O.	P1784, P1786, P1788, P2158	Salikov A.V.	P2054	Sanders K.	P1543
Safro Y.	P2095	Salimbanon A.	P357, P362	Sanders-Van Wijk S.	1936, 62
Sagach V.	P2204	Salinas-Morales D.	P312	Sanders-Wijk Van S.	56
Sagach V.F.	P1263, P2205, P2208	Salles G.	1324	Sandoval C.E.	P1579, P431
Saghir T.S.	P2145	Salman E.A.	P1737		
Sagris D.	P1855				

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Sandoval E.	P2151	Sapelnikov O.V.	P372	Scagnetto A.	P2028
Sane R.O.H.I.T.	P426	Sapojnic N.	P901	Scalco A.	1470
Sangoi P.	820, P245	Sapozhnikova A.D.	P409	Scalone A.	P402
Sanina C.	P1042, P1659, P241	Sapozhnychenko L.V.	P527	Scardovi A.B.	P308
Sanjay G.	P1107, P484, P485	Sara Cimino S.C.	P1635	Scarpati R.	P1613, P939
Sanmamed Giron M.	693, P1015, P559, P994	Sara Lozano Jimenez S.L.J.	P1099	Schaefer A.	P1735
Sanmartin Fernandez M.	P1228, P2094	Sara Lozano Jimenez S.L.Z.	P1104	Schaefer U.	828, 829
Sanna N.	P402, P593	Saraiva C.	P1632	Scharnhorst V.	708
Sano Y.	P1704	Saraiva G.	P317	Schaufelberger M.	1926, P447
Sans-Rosello J.	44	Saraste A.	62, P2010	Schellberg D.	P1703
Santana I.L.S.	P1743, P1780	Saraya M.	P2109	Schellinger I.N.	P1272
Santas E.	1976, 683, P1092, P1589	Sardella G.	P1613	Scherbakova N.V.	1340
Santema B.T.	1285	Sari C.E.N.K.	P2143	Scherr D.	P1557
Santema B.T.	1336, 1929	Saric S.	P1833	Scherr M.	P1885
Santesmases J.	1930, P1573, P1598, P1722, P295, P941	Sarkisova N.D.	P1807	Scherrenberg M.	P1568
Santiago-Vacas E.	1930, P1571, P1573, P1598, P1722, P1847, P295, P941	Sarmento P.	P1852	Schieffer B.	839
Santic K.	833	Sarno G.	P1096, P1106, P1109	Schimerova T.	P938
Santini L.	P1537	Sarrion M.	P1655, P992	Schintu B.	P402
Santisteban Sanchez De Puerta M.	P1001, P1003	Sartori P.	1475	Schiopu A.	P631
Santobuono V.E.	P1536	Sartori S.	P1854	Schippert C.	P489
Santolamazza C.	P1024	Sarullo F.M.	P1021	Schirmer B.G.A.	1468
Santos A.	P2066	Sarullo S.	P1021	Schirripa V.	P1536
Santos D.A.	P1158, P2189	Sasaoka T.	P391	Schloss E.J.	P1535
Santos E.	P1522	Sato A.	P441	Schlothauer S.	1926
Santos G.V.	P1747	Sato H.	P276	Schlotter F.	19, 830, 831
Santos H.	P1114, P1115, P1796, P1797, P301, P494	Sato M.	P947	Schmailzl K.J.G.	P2178
Santos H.M.	P1743, P1780	Sato M.S.	P952	Schmidt A.	P2044
Santos J.	P495, P630, P890	Sato N.	P461	Schmidt M.R.	P275
Santos J.A.	P2120	Saturno-Chiu G.H.	P1773	Schmiedel N.	6
Santos J.G.	823	Saule I.M.	P474	Schneider B.	P1523, P403
Santos J.M.	200	Saura-Guillen E.	P1257, P1259, P1260	Schneider R.S.	P1747
Santos L.	1460, P1114, P1115, P307, P494	Saurit V.	P1825	Schoenrath F.	P329, P388, P893
Santos M.	822, P1822, P2096, P303, P303, P494	Saushkin V.	P1547, P1638	Scholes E.	P2101
Santos R.	P1701, P1799, P1801, P1819, P1820, P2142, P2175, P303, P304, P534, P903, P909, P981	Savage H.O.	P332	Scholz M.	19, 60
Santos S.G.	P1274	Savarese G.	1279, 1934, 1975, P942, P970	Scholz N.	P2016
Santos V.O.	P1743, P1780	Savello V.E.	1332	Schoonheim P.	P566, P568, P569
Santos-Martinez L.E.	P2042	Savic L.	P1121, P2006, P2103, P2126	Schou M.	1932, 1972, 57, P964
Sanz J.	P509	Savira F.	P1244	Schouten E.M.	1467, P1879
Sanz Julve M.	P883	Savoldi D.	1336	Schroyens M.	P408
Sanz Latiesas X.	P1221	Savopoulos C.	P1154, P274	Schrutka L.	P242
		Savulescu-Fiedler I.	P2000	Schubert J.	P1874
		Sawada Y.	P2062	Schuett K.	1464, P882
		Sawicka E.	P1559, P502	Schultheiss H.P.S.	P522, P523
		Sax B.	P361	Schultz H.H.	P466
		Sayago-Silva I.	P370	Schulz W.L.	P1736
		Sayour A.	P1249	Schulz-Burck D.	P1184
		Sayour A.A.	P1889, P633	Schulze P.C.	1339, P1265, P352, P510
		Sazonova S.	P1987	Schurmans J.	P408
		Sazonova Y.U.	P367	Schwartzmann P.	P318
				Schwarz A.	P282

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Schwende H.	1284, 694	Sente T.	P1008	Shavarova E.K.	1463
Schwertner W.	1474, 834	Seo B.S.	P1131, P2125	Shcheglova A.V.	P439
Sciarrone P.	P1733	Seo H.S.	P1151	Shchekochikhin D.U.	682
Sciatti E.	1336	Seo W.-W.	P238	Shchekochikhin D.Y.U.	P2001
Scifo C.	P974	Seol S.H.	P605	Shchendrigina A.	P1661
Scigliano M.	P1897	Seong I.W.	P1131, P2125	Sheikh V.	P1729
Sckena R.	P1824	Sepp R.	P1164, P1882, P2157, P297,	Shelest B.	P2162, P2164, P961
Scott C.	P542		P579	Shelest B.A.	P1790
Sdiri W.	P926	Sequeira V.	P1872	Sherez J.	1488, P1167, P2191
Seabra A.	P1743, P1780	Serafeim P.	P1894	Shestak A.G.	P1810, P2150
Seabra D.	P1102, P1194, P1195,	Seredenina E.M.	P2029	Shestakova L.	39, P1093, P1094
	P1197, P1564, P2025, P2246, P319	Sereti I.	P1729	Shetty P.N.	P1113, P1603
Sebaïti D.	34, 823, P1132, P1528,	Sergio Garcia Gomez S.G.G.	P1098	Shevchenko S.V.	P1023
	P1540, P1914, P457	Sergushichev A.A.	P2209	Shevelok A.N.	P1621
Sebbag L.	P1031	Serodio J.	P2096	Shevelok P.O.	P1621
Secco L.	P1579, P1825, P2100	Serova M.V.	P1203, P1645, P2001	Shevelyok A.	P1000
Sedaghat-Hamedani F.	1476	Serra E.	P1225	Sheyin O.	P912
Sedaïa E.	P1647, P1997	Serra Penaranda A.	1421	Shilina L.	P1180
Sediva J.	P405	Serrano Munoz B.	P1555	Shim C.Y.	P1135
Sediva L.	P596	Serrao P.	P476	Shim W.J.	1477, P2185
Sedlacek K.	1971, P2079	Servitja Tormo S.	P1221	Shimada H.	P1675, P1683
Sedlak J.	P249	Seth R.A.C.H.N.A.	P1172	Shimada S.	1425
Sedov V.P.	P1645, P1807, P2001,	Seth S.	1350, P1172, P1668, P584	Shimane A.	P2062
	P2150, P251, P407, P519	Sethares K.A.	P1841	Shimazu S.	P1101, P462
Seferi S.	P2171	Setta D.X.B.	P1747	Shimizu A.	1337, P1718, P346, P438
Seferovic P.	P1155	Setzu A.	P402	Shimizu M.	P1675, P1683
Seferovic P.M.	P1046, P253, P448	Severino P.	P1613, P939	Shimokawa H.	P276, P947
Seggewiss H.	1348	Sfendouraki E.	P1924	Shimokawa H.S.	P952
Segovia Cubero J.	1928	Shabanov V.	P1542, P246	Shin J.H.	P1827
Segovia J.	44	Shaburishvili T.	P2036	Shin J.Y.	P1580, P2160, P2195,
Segovia-Cubero J.	P359, P561	Shah P.	P1626		P397, P950
Seidelberger B.	P1150	Shah S.	P1622	Shin M.S.	P1609, P1673
Seiti J.	P2171	Shah S.J.	1936, 62, P2010	Shinnawy M.M.	P1737
Seiz M.	P1703	Shahzadi A.	P1765	Shipulin V.V.	P1638
Sekita G.	P441	Shakaryants G.	P1661	Shipulin V.M.	P1268, P1638
Sekne E.C.	P1605	Shakaryants G.A.	P1880	Shirai S.	P1742
Sekne E.K.	1927	Shakaryants G.A.	P586	Shirai S.S.	P1526
Selimovic M.	P1054	Shalaby A.	P1783	Shiraishi Y.	P1746
Seljeflot I.	790	Shalaev S.	P2107	Shirokov N.	P375
Seller Moya J.S.M.	P567	Shamada E.	P1988	Shirokova N.	P581
Selmani H.	P1122, P1781	Shamai S.	P2191	Shiroto T.	P947
Semanche L.	P1767	Shandhi M.M.H.	P1068	Shiroto T.S.	P952
Semenchukov A.	P1837, P1838,	Sharf T.	P2015	Shiryayev A.	P2129, P2134
	P1858	Sharipov R.R.	P2205	Shitara J.	P1071, P441
Semenov A.G.	P972	Sharma A.	P1726, P380	Shiue H.S.	P969
Semernin E.N.	P2147	Sharma G.	161	Shlyakhto E.V.	P1558, P934
Semigran M.	P1702	Sharma R.	P479	Shorikov E.	P360, P886
Semyonova E.S.	P1023	Shatova O.	P1548, P1550, P1552,	Shorikova D.	P360, P886
Sencichin P.V.	1967		P1560, P1818, P2139	Shoybonov B.B.	P1996, P1998,
Sengupta S.	P1587, P584	Shatri F.	P1122, P1781		P1999
Senni M.	1284, 694, P270	Shavarov A.	P1832, P236, P237	Shugushev Z.	P1784, P1786, P1788,



# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
	P2158	Sim K.L. D.	P1007, P999	Skantzis P.	P1154
Shukla M.A.D.H.U.	P515, P896	Simakova M.	1480	Skarzhinskaya N.S.	P1053
Shukurov R.T.	P1005	Simantirakis E.	876	Skena R.	P1823, P528
Shumkova M.	P2233, P612	Simazu S.	P1070	Skiadas I.	P1924
Shumovets V.	P2128	Simeonidou E.	P1549	Skibitsky V.V.	P400
Shushkovska Y.	P446	Simic D.	P1864	Skidan V.I.	P1892
Shutov A.M.	P1023, P2084, P442	Simic D.V.	P2183	Skoda J.	P596
Shved M.	P2241	Simic J.	P1046, P448	Skopal J.	P1250
Shyshkina N.V.	P2009	Simic N.	P392	Skoric B.	P387
Shyu K.-G.	P622	Simitsis P.	197	Skorodumova E.	1332
Siana A.	P1200, P1201, P1901, P2228	Simmons T.	P2088	Skorodumova E.A.	1332, P1574
Siarkos M.	P603	Simoës J.S.	P1826, P530, P531	Skorodumova E.G.	P1574
Siasos G.	P1804, P2080, P281	Simoës M.V.	1468, P1877, P2044	Skoularigis J.	P2014, P2024, P929
Sibley J.	P332	Simoës O.	34, P457	Skouri H.	1459, P1209, P1672, P1676, P2167
Sichinava D.S.	P2009	Simon A.	P1091, P363	Skoutas D.	P1154
Sickmann A.R.	P1270	Simon I.	1286	Skulstad H.	833
Sideris A.	1338, P1043, P1055	Simon J.	P1250, P405	Skvortsov A.	P1072, P2015
Sidorova M.V.	P1863	Simonavicius J.	P1899	Skvortsov A.A.	P1595
Sidorova V.P.	P1829	Simonenko M.	P367	Slaby O.	1429
Sidorowicz N.	P1143, P1812	Simonenko M.A.	P1721	Slama M.	1347
Siegismund C.S.	P522	Simonova K.V.	P1558	Slavchev B.	1969
Sievert H.	P2177	Simonovic D.	P1833	Slawik J.	1278
Sievert K.	P2177	Simou A.	P2014, P2024, P929	Slawuta A.	P1541, P1893
Siew K.	P572	Simovicova V.	P1090	Slepukhina E.A.	P888
Sieweke J.T.	P1735	Simpson J.	P1594	Slevin A.	P1554
Sigala E.	P513	Simpson R.	P1630	Sliwa K.	1926, P2149, P898
Sikora J.	1484	Simsek E.	P963	Smagulov N.	638
Sikora Kessler A.	P574	Sinagra G.	1483, 1975, 64, P1142, P449, P526, P936	Smajic E.	P1054
Silber H.	P2088	Sinagra G.F.	P1597	Smeir E.	16, P2198
Silber S.	P1026	Sinescu C.J.	P1233	Smigielski W.	P1246
Siles Rubio J.R.	P552	Singal A.K.	161	Smiljic V.	P573
Silinskiene D.	P1899	Singh A.	59, P1113, P1603, P259	Smirnov E.	P2236
Siliste C.	P1204	Singh B.	P376	Smirnova E.	P1180
Siliste R.	1462, P1204, P460	Singh M.	693, P1015, P559, P994	Smirnova E.A.	P400
Siliste R.N.	P2000	Singh N.	P1682	Smirnova E.N.	P953
Sillje H.H.W.	1467, 7, P1248, P1879	Singh-Gupta V.	P2201	Smirnova M.	P1040
Silva A.M.	P1274	Sinkovic A.	48	Smith J.	P1169, P2166
Silva D.A.	P1888	Sioma A.	P580	Smith R.	828
Silva E.D.	P1274	Stonis A.	44, P1787	Smith S.	P912
Silva L.B.B.	P2044	Sirenko O.	P2003, P272	Smith S.J.	P1146, P1149, P2070
Silva P.	P1194, P1195, P1197	Sisakian H.	1342, P613	Smolenski U.C.	1339, P1265
Silva T.	34	Sitges M.	1346, 1349	Snihurska I.	P904
Silva T.C.	P1743, P1780	Sitnikova M.	P1136, P1569, P1585, P1860, P367	Soares F.	1460, P924
Silva-Cardoso J.	P1600	Sitnikova M.Y.	P916	Soares M.	P1194, P1195, P1197
Silva-Ruz C.	P1911, P1912, P1917, P2220, P445, P990	Sitnikova M.Y.	P1558, P2209	Sobhy H.	P2109
Silverio-Antonio P.	P903	Sitnikova M.Y.U.	P1611, P395, P934	Sobhy M.	P2109
Silverman D.	P1622	Sitta N.	P305	Sobieszek G.	P1921
Silverman M.	204	Siverina A.V.	1332, P1574	Sobkowicz B.	P1559, P502
Sim D.	P1027, P2007, P381, P954	Siwolowski P.	P2090, P454	Sobrino Marquez J.M.	1928
				Sobrino-Marquez J.M.	P370

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Sochanowicz B.	P1237	Sotlar K.	P1865	Stamoulopoulos I.	P980
Soffer J.	P382	Sousa A.	P1600	Stamoulopoulos J.	P2187
Sofia Gerward S.G.	P2041	Sousa C. P1114, P1115, P1774, P1796,	P1796,	Stan C.	P2244
Sohmiya K.	P1079, P452		P494	Stancak B.	P249
Sohn I.S.	P1827	Sousa T.	P476	Standfield N.	P287
Sokolska J.M.	P2090, P454	Souza E.N.	P1845	Standfield N.J.	P910
Sokolski M.	P2090, P454	Souza L.E.	P629	Stanisavljevic N.	P2183
Solar N.	1971	Souza L.G.	P2038	Stanislaus R.	P487, P493
Soldatenko M.V.	P263, P920	Souza Neto J.D.	P318	Stankovic G.	P2006, P2103
Soldatova A.	P375	Souza R.H.	P1193	Starcevic B.	P1165
Soldatova A.M.	P341, P409	Sovetova S.	P1592	Starchenko T.	P904
Sole Gonzalez E.	P1221	Sowa P.	P1559, P502	Starck C.	P329, P388
Sole-Gonzalez E.	P1174	Spacek R.	P2122	Starmans R.	P1196
Soler Costa M.	683, P1092	Spargias K.	828	Startari U.	1327
Soler M.	1976	Spartalis M.	P247	Stasek J.	P1078
Soliman M.	838	Spataru D.	1462, P1204	Stassen J.	P1568, P1891
Solla I.	P1667, P554, P562	Spataru D.V.	P2000, P460	Stathopoulou D.	P587
Solomon S.	204, P1702	Spatz E.S.	P1736	Stavak P.	P2079
Solonovych A.	P1049, P1725	Speich B.	P564	Stavrati A.	P404
Solorzano Guillen C.	P1150, P1152, P1156, P1532	Sperling L.	P1728	Steen H.	P1633, P282
Soloveva A.	680, P1591, P2081, P2093, P464, P465	Spiewak M.	P2242	Steenbruggen T.G.	P1170
Soloviov M.V.	1332	Spilinga M.	P2196	Stefanadis C.H.	P287
Solovjeva A.E.	P436	Spinar J. P2122, P309, P461, P547,	P547,	Stefanidis E.	P234
Solovyova E.A.	P251, P407		P925	Stefanini G.	P509
Soltan G.	P1783, P1793, P1816	Spinar J.S.	P925	Steffel J.	P412
Soltani S.	P893	Spinarova L. 1429, P1140, P2155,	P309, P383	Steffens S.	P1861
Soltesz A.V.	P511		P925	Steinert H.	P1026
Soltowska A.	P1143, P1812, P437	Spinarova L.S.	P925	Steinshamn S.	P1527
Sommer A.	P989	Spinarova M.	P309	Stellato K.	P2028
Song B.J.	1283	Spinarova S.M.	P925	Stellbrink C.	1417, P1720, P1727
Song P.S.	P2112	Spinetti P.P.M.	P318	Stelling E.	1926, P1885
Song S.H.	P2195	Spinka G.	54, 835	Stelmashok V.	43
Song Y.J.	P605	Spiro J.	P1084	Stepanova E.A.	P2054
Sonke G.S.	P1170	Spitaleri G. P1230, P2217, P434,	P598	Stepanova O.	P1876, P618
Sonntag E.	P1893		P371	Stepanova O.V.	P1258
Sorasio G.	P1823, P1824, P528	Sponga S.	P442	Stepanova R.	P547
Soreca S.	P550, P551	Sporova V.N.	P347	Stephania Galindo Coral S.G.C.	
Sorensen J.	1280	Springer J.	P285		P1036, P2013
Soro C.	P1229	Spurgeon L.	P1050, P334, P451	Stepien-Wojno M.	P1202
Sorokin G.Y.	P1807	Spyropoulos J.	59, P259	Steriotis A.	1977, P479
Sorokina A.G.	P585	Squire I.B.	P486	Stiropoulos P.	P549
Sorokina K.	P1678	Sridhar S.	P486	Stoellberger C.	P1523, P403
Sorokina M.	P1126, P1134	Srinivas B.C.	P486	Stoerk S. 1286, 1290, 46, P1026,	
Sorriento D.	1472, 787, P1866, P2203, P621, P624	Srinivas K.H.	P486	P2016, P264, P265, P268, P269	
Soseliya N.	P1123, P2093, P464	Sriparn P. P1768, P1772, P1775,	P2086, P2115	Stoia M.A.	P399
Sosnowski M.	P1644		P1559, P502	Stoica E.	P1199, P1895
Sossalla S.	6, 791, P1238, P1241, P1870	Stachurska Z.	P257	Stoickov I.	P1833
		Staessen J.A.	13	Stoickov M.	P1833
		Stalboerger P.G.	P270	Stoickov V.	P1833, P398
		Stammera C.A.	P893	Stojanovich L.	P2183
		Stamm C.		Stojkovic S.	P1155

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Stokes M.	P317	Sulaiman K.	P1776, P1777, P490	Szabo L.	P2199
Stolen C.	P1535	Sulong M.A.	P2111, P493	Szabo M.	P1066, P1570, P1602,
Stolfo D.	1975, 64, P1142, P936	Sulong M.S.	P487		P971
Stopar R.	P1226, P2018	Sulovic V.	P2006, P2103	Szabo P.L.	P1868
Storm-Larsen C.	790	Sultan A.	P1765	Szabolcs Z.	P361
Stougiannos P.	P1058	Sulzgruber P.	P262	Szakai-Toth Z.	P361
Stoyanova K.T.	P612	Sumin A.	P439, P507	Szarszoi O.	841
Straburzynska-Migaj E.	1284, 694, P1062, P1565	Sundukova K.	P632	Sze S.	1973, 1974
		Sung K.C.	P1827	Szeiffova Bacova B.	P1262
Strand M.E.	P1253	Sunitha V.	P484	Szeplaki G.	1474, 834
Stranecky V.	P938	Sunjaya A.F.	P2106	Szlosarczyk B.	P1064
Stratinaki M.	842	Sunjaya A.P.	P2106	Szogi E.	P1570, P591, P971
Strazhesko I.	P585	Supe Domic D.	P1075, P473	Szapkowicz A.	P1559, P502
Streckfuss-Boemeke K.	P1870	Suran B.	P1204	Szpakowicz M.	P1559, P502
Strippoli E.	P298	Suresh K.	P484	Szumowski L.	P1202
Stritecky J.	P2216	Surev A.	P1997	Szwamel K.	P1189
Stroemer H.	P1026	Surikova Y.	P581	Szymanska S.	P1246
Stromberg A.	1975, 705, P1038, P1843, P2179, P970	Surks H.	P1702	Szymanska-Chabowska A.	P1186,
		Susca-Hjoda S.	P336		P1846
Strong C.	1430	Susilovic Grabovac Z.	P1075,	Szymanski P.	P475, P516
Strong C.M.F.	P1632, P536		P1080, P473	Ta H.	P478
Stroschein F.	P1824	Susievska M.S.	P2067	Tabak R.	P1196
Strozik P.	P1541, P1893	Suslova T.	P895, P905	Tabakovic M.	P1054
Struck J.	205, 49, P2113	Suslova T.E.	P1069	Taboada M.	P2100
Strunk G.	10, 835, P937	Suthahar N.	1937, P540, P927	Taborsky M.	P2216
Strutynska N.	P2204	Sutil-Vega M.	P1658, P1671	Tabuchi H.	P441
Strutynska N.A.	P1263	Suvakov S.	P1864	Tada H.	P276
Strygo N.	43	Suvorova S.A.	P442	Taddei C.	P930
Studer R.	P306	Suyker W.J.L.	1424	Taeger T.	P1116, P296
Studneva I.M.	P1863	Suzuki M.	P1675, P1683	Tafarshiku R.	P1724, P2068
Stuparu C.	P2245	Suzuki T.	689	Tagaeva D.R.	P1034, P899
Sturov N.	P1784, P1786	Suzuyama H.	P1130	Tagoulis D.	P1894
Sturzu A.	P532	Svardal A.	790	Taguchi E.	P1130
Su Z.Z.	P609	Svedlund S.	62, P2010	Taha K.	P521
Suberviola Sanchez-Caballero V.	P1655, P992	Svirida O.	P1656	Taibi-Hajjami F.	P1658, P1671
		Sviryaev Y.V.	P1721	Takacs H.	P1164
Suceveanu M.	P432	Svobodova I.	P1140	Takahashi J.	P947
Suciu C.F.	P1218	Swamy V.	204	Takahashi J.T.	P952
Suda S.	P441	Swedberg K.	1286, P1849	Takaishi A.	P1679, P1751, P1752
Sudano I.	P1588	Sweeney C.	P996	Takase K.	P276
Sudjaeva O.	P2139	Swiatlowska P.	P1242	Takaya T.	P2062
Sudjaeva S.	P2139	Swiatoniewska N.	P1186, P1846	Takeishi Y.	P302, P933
Suendermann S.	P329	Swied R.A.N.I.A.	P1695	Talavera J.	P1273
Suerder D.	P1910	Swoboda K.	P2090, P454	Talavera M.L.	P1821
Sugahara M.	P1216	Sychev A.	P1072	Tamaki Y.	1282, P1105, P1994
Sugimura K.	P276, P947	Sy-Lim A.	P1738	Tamas J.	P1266
Sugimura K.S.	P952	Sypien P.	P968	Tamayo L.J.	685
Suh S.Y.	P1609	Syrkin A.L.	P1203, P1645, P2001	Tamborini G.	P1803
Sujino Y.	P1746	Syrseloudis D.	P1924	Tamby J.-F.	P1702
Sukhikh G.	P1876	Szabo G.	P1249, P633	Tamez-Priego E.	P990
Sukhorukova M.V.	P436	Szabo I.A.	P631	Tamim H.	P1672, P1676

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Tampakis K.	P2190, P980	Te Riele A.S.J.M.	1476	Thameur M.	824, P1808, P2230
Tamulenaite E.	P2174	Teasa A.	P1233	Theodosaki O.	P1583, P1583, P1705
Tamura K.	P461	Teh K.C.	P487, P493	Theodosis-Georgilas A.	P1163
Tamura Y.	P1130, P2234	Teh W.H.	P1594	Thevathasan L.	P566, P568, P569
Tan K.L.	679, P2111	Teichert-Kuliszewska K.	P1254,	Thiel S.	P275
Tan K.L.	P487, P493		P628	Thiele A.	16, P2198
Tan M.P.	P572	Teichman S.	P1702	Thiele H.	19, 60, 830, 831, P1802,
Tan Q.T.	P1736, P1756	Teiger E.	1925		P2008, P260
Tanaka D.M.	1468, P1877	Teis A.	P1598	Thierry J.	19, 60
Tanakaya M.	P470	Tekkesin A.I.	P291	Thimphitthaya C.	P1768, P1772,
Tang F.	P1728	Teles R.	822		P1775, P2086, P2115
Tang H.	P1223	Tello Blasco S.	P1601	Thodi M.	P1043, P1055
Tang H.W.	202	Temesvari A.	P589	Tholeifsson S.	P1109
Tang W.H.W.	P266	Ten Tije A.J.	P1170	Tholey A.	6
Tanhui K.	P1738	Teng T.H.K.	1281, P954	Thomas D.	P1182, P1706
Taniguchi H.	P2234	Tentolouris A.	P1715	Thomas F.	P2178
Taniguchi Y.	P2062	Teo L.	P1027, P381	Thomopoulos T.	P1058
Tanimoto M.	P1679	Teodoru M.	P987	Thomson C.L.	P1687, P2048
Tankeu T A.	P1717	Teoh C.K.	P2111, P487, P493	Thon Aamodt I.	P2179
Tao Y.J.	P345	Tepayotl-Aponte A.	P1773	Thorleifsson S.	P1096, P1106
Taomoto Y.	P1675, P1683	Tepljakov A.T.	P263, P920	Thorvaldsen T.	1279
Tapia-Lopez E.	P1911, P1912, P1917,	Ter Horst I.A. H.	P1546, P1989	Thum C.H.	P487, P493
	P2220, P445	Ter Horst I.A.H.	P1544	Thum T.	P1251
Tarancon Zubimendi B.	P1156	Ter Maaten J.M.	1291, 1420	Ticinovic Kurir T.	P1075, P473
Tarasiuk E.	P1559, P502	Ter Maaten J.M.	1285, 205, 55	Tiffe T.	P264, P265, P268, P269
Tardif J.C.	1286	Terekhovskaya Y.V.	P400	Tilea I.	P1218
Tarjanyi Z.	P361	Teren A.	19	Tillmann K.E.	P1859
Tarlovskaya E.	1342	Terentes-Printzios D.	P1804, P513	Timmermans Jr P.	P601
Tarnow L.	57	Terentev V.P.	P1053	Timmermans P.J.	158
Tarvasmaki T.	P1085, P1787	Teresa Landa M.	P340	Timmermans P.J.R.	P1568, P1891,
Tasheva R.	P504	Tereshchenko E.A.	P1063, P545		P1906, P408
Tashmanova A.	P321	Tereshchenko S.	P1072, P1876,	Timmermans P.S.R.	P1906
Tasic I.	P1833		P2015, P618	Timmermans P.H.T.	P1811
Tatarskii R.	P2238	Tereshchenko S.N.	P1258, P1595	Timokhina V.	P2236
Tatarskiy R.	38	Tereshenko S.N.	P372	Timonet Andreu E.	P552
Tatarskiy R.B.	P877	Teresi L.	1939	Timotin A.	P2194
Tatarsky R.	P877	Teresinska A.	P580	Tir Y.	P1531
Tatebe S.	P276	Termosesov S.	P1592	Tirilomis P.	P1238, P1870
Taus Garcia A.	P1221	Terracciano C.M.	P1251	Tirziu C.	P1060
Tautu O.	P1828, P2163	Ters J.	1971	Tishkova V.	P1569, P1860
Tavares A.	P1600	Terui Y.	P276	Titova I.U.	P959
Tavares J.P1114, P1115, P1796, P494		Terzic C.	1323	Tkach N.	P1566, P326
Tavares S.	P1616, P294, P885	Teske A.J.	P2184, P521, P891	Tkaczyszyn M.	P1143, P1812,
Tavazzi L.	1286	Testa M.	P267		P2058, P437
Tay W.T.	1281, 1431, P954	Testani J.	P266	Tobiszewski J.	P2058, P437
Tayal U.	P1648	Teszak T.	P361	Tobushi T.	P1732
Taylor C.J.	P564	Teterina M.	680	Tocchetti C.G.	P2203, P621
Taylor K.	P564	Tettamanti M.E.	P1158, P2189	Todiere G.	1482, 1939, P1137, P526
Tchebegna P.Y.	P1717	Thackeray J.T.	P1877	Todor I.	P1577
Tcheutchoua Nzokou D.B.	P1717	Thackeray J.T.	1468	Todoroff J.	P928
Te Lintel Hekkert M.	P1239	Thakur P.	P468	Todurov B.	P2036, P884

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Toender N.	1972	Traaen G.M.	P1527	Truszkowska G.T.	P1202
Toh H.S.	P1750, P902	Trabulo M.	1961, P536	Tryfou E.	P280
Toischer K.	P1238	Tracey C.	P1663	Tsai C.H.	P969
Tokodi M.	1474, 834, P511	Tralhao A.	1430, P536, P931	Tsakliadou C.	677
Tola G.F.	P402	Tran Kieu Diem T.R.A.N.G.	P1028	Tsalamandris S.	P2080, P281
Tolbod L.P.	1280	Trandafir A.	1462, P1204, P2000	Tsarenok S.	P1831, P2182
Toledo Frias P.	P401	Trasca L.F.	P1641	Tsareva V.	P632
Tolppanen H.	P1787	Travieso Gonzalez A.	P1576, P1581, P1711, P2022	Tsasse J.F.	P1717
Tolstyga M.I.	P442	Traxler D.	P2193	Tscheika A.P.	P1575
Toma M.	P2071	Trayanova Stoyanova K.	P2233	Tschoepe C.	791, P1252
Tomashevich K.A.	P430	Trembovetska O.	P1817, P2243	Tschope C.	P1241
Tomescu M.	P279, P440	Trenk D.	P1184	Tselegkidi M.	P2187
Tomita Y.	P1907	Trenten-Sonoda M.	P2212	Tseliou E.	P2187
Tomiyama H.T.	P2075	Trepa M.	P303	Tsiakou A.	P1162
Tomoaia R.	P1713	Treptau J.	P583	Tsiapras D.	1419
Tonani G.	P2180	Tretter E.V.	P2199	Tsiavou A.	P543
Tonko J.	P412	Tretter V.	P1859	Tsilafakis K.	1471, P620
Tonnesen T.	P1253	Tretyakova S.	P1837, P1838, P1858	Tsilingiris D.	P1715
Topilsky Y.	1488, 832, P1167, P2191	Triantafylloy C.	P513	Tsinopoulos G.	P1154
Toprak .	63	Trifunovic D.	P2006, P2103	Tsipis A.	P1856, P1857
Toran Martinez C.	P1150, P1152, P1532	Trigo J.	35	Tsitlakidis K.	677
Toranzo Nieto I.	1965	Trikas A.	P1058, P287, P910	Tsoi E.	P1219
Torky A.R.	P2140	Triki M.	1461	Tsokos N.	P1154
Tormo J.P.	P1589	Trimarco B.	1472, 787, P1866, P2203, P624	Tsoporis J.	P1254, P543, P628
Tornvall P.	P1096, P1109	Trinchese G.	P621	Tsoukas A.	P1200, P1201, P1901, P2228
Toro F.	P2026	Trindade M.	P2096	Tsoukra V.	P239
Torp-Pedersen C.	1932	Trindade T.M.	P1743, P1780	Tsourelis L.	P384
Torracca L.	826	Tringer A.	P1882, P2157, P297, P579	Tsoy I.A.	P1005, P1025, P1029, P1030, P337
Torralba N.	P2027	Triposkiadis F.	P2014, P2024, P2929	Tsuda K.	P1079, P452
Torreccilla E.	1349	Trishkina N.	P1533	Tsukishiro Y.	P2062
Torres Calvo F.	P552, P553	Trivella M.	P564	Tsutani H.	P1995
Torres P.	P1033, P1087	Trofenciuc M.	P279, P440	Tuana B.	P2212
Torres S.	P1774, P2089, P2091, P303	Troisfontaines P.	P928	Tudorica C.	P460
Torromeo C.	P1125	Troitskaya E.	P464	Tudorica S.	P460
Toser Z.	1474, 834, P511	Trojanek S.	P1859, P2199	Tuhay G.	P1821
Toshev B.B.	P1034	Tromp J.	1281, 1285, 1469, 1931, 201, 62, P1726, P2007, P469, P954	Tukek T.	63
Totakhel B.	P2188	Tronchere H.T.	P2194	Tulbaev E.L.	P1119
Toth A.	17, P1241, P1266, P1878	Trongtorsak A.	P1768, P1772, P1775, P2086, P2115	Tulloch-Reid E.T.R.	P1699
Toth G.G.	1348	Troseid M.	790	Tumasyan L.R.	P558
Toth K.	P1903, P589	Trout G.	P1767	Tunyan L.G.	P558
Toth L.	P1903, P589	Troya M.I.	1930, P1573, P295	Tupy M.	1971
Totorean C.	P2136	Troyanova-Shchutskaia T.	P1548, P1552	Turkono H.	P327
Tougaard R.S.	57, P1629	Trueick R.	P983	Turner C.L.	P581
Toumi H.	P2178	Trukshina M.A.	P1558	Tursi V.	P371
Tountas C.H.	P1163	Truong L.-L.	P232	Tyminska A.	P911, P968
Tousoulis D.	P1804, P2080, P281, P287, P513, P910			Tytarenko N.V.	P1790
Toutouzias K.	P1804, P287, P910			Tzahor E.	P619
Touw D.J.	P1235				

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Tzanis G.	P1117	Uzokov J.K.	P538	Van Goor H.	1467
Tzeltzes V.	P2221	Vaartjes I.	1934, P1607, P942	Van Laake L.W.	1424
Tzemos N.	P912	Vacarescu C.	P1545	Van Laar E.	P334
Tziatzios G.	P588	Vafaie M.	P1116	Van Landuyt R.	P1008
Tzikas A.	P239	Vagany D.	P1066, P1570, P1602,	Van Leen M.W.F.	P1196
Tzimagiorgis G.	P1875		P591	Van Linthout S.	791, P1241, P1252
U D.	P241	Vahanian A.	829	Van Melle J.	1931
Ubertini E.	1330	Vahrushev Y.	P1860	Van Rhenen A.	P2184
Uchmanowicz I.	P1006, P1189,	Vaiculiene D.	P474	Van Rosmalen J.	P1170
	P1206, P1850	Vaidyanathan P.R.	P486	Van Rossum A.C.	P1634
Udell J.	P907	Vaikhanskaya T.	P1639	Van Stipdonk A.M. W.	P1544,
Ueda A.	P1763	Vaisbuh E.	1979		P1546, P1989
Ueeda M.	P1679	Vajagic L.	P1046, P448	Van Veldhuisen D.J.	P469
Ueland T.	790	Vakhrushev Y.U.	P1886	Van Veldhuisen D.J.	
Uemura H.	P1216	Vakilian F.A.R.V.E.H.	P1606	1285, 1467, 1929, 1931, 1937, P1624,	
Ugata Y.	P1770	Vakrou S.	688		P1726, P2007, P540
Uijl A.	1934, 1975, P942	Valcarcel-Paz D.	P1658, P1671	Van Wijk S.	P338
Ulmer H.	1290	Valeeva R.	P1180	Van Woerden G.	P1624
Ulus T.	P1056, P2077	Valenzano K.	P2203	Vancayzeele S.	P1008
Ulutas Z.E.Y.N.E.P.	P1240	Valero E.	683, P1092	Vander M.A.	P1558
Ulvenstam A.	206	Valham F.	1938	Vanderheyden M.	P234, P258,
Unal B.A.R.I.S.	P2143	Valicelli F.H.	P2044		P497
Ungar A.	P1014, P917, P979, P984	Valikhov M.	P1876, P618	Vanegas J.	P1767
Unger P.	P1896	Valikhov M.P.	P1258	Vanermen A.	P2138
Unger-Graeber B.	P2118	Valk M.J.M.	P1607	Vanhentenrijk S.	P601
Unterhuber M.	830, P1802	Valla C.	P1873	Vanhoutte E.K.	1980
Untura L.	P1997	Valle Alberca A.	P552, P553	Vankovich E.	P1818
Uppunda D.	P1113	Valle Munoz A.V.M.	P567	Vanlierde M.	P1008
Ural D.	P1042, P1052, P1659	Valleggi A.	P1628, P930	Vanni V.	P1014, P917, P979, P984
Ural E.	P1659	Vallejo Garcia V.E.	1965	Vanoverschelde J.L.	643
Urban E.	P1889	Vallejo Sacristan E.	P1150, P1152,	Vaqueriza D.	P1655, P992
Urbancsek R.	P1586		P1156	Varava Y.	P527
Urbanek K.	P1869, P2213, P634	Valova T.	P2017, P467	Vardas P.	P1583, P1583, P1705
Urbanek P.	P1202	Valsecchi S.	P1536, P1537	Vardi N.I.G.A.R.	P1240
Urbinati A.	P1626	Valstar G.B.	P891	Varela A.	1471
Urdapilleta M.	P431	Valstar G.D.	P1607	Varela B.	P1821
Urena A.	P1228	Van Camp G.	P234	Varga A.	P1218
Uriarte Elguezabal J.A.	P1210	Van De Bovenkamp A.A.	P1634	Varga T.	P511
Uribe Heredia N.G.	P1152, P1156,	Van Der Harst P.	1929, 1937, P1726,	Vargas Gomez J.J.	P2026
	P1532		P469, P540, P927	Varma N.	P1535
Uribe Heredia N.G.	P1150	Van Der Heijden J.	P521	Varrenti M.	P1024
Uribe J.D.	685	Van Der Meer P.	1285, 1931, 201,	Vasconcellos R.C.A.	P982
Urreta I.	P1667, P554, P562		789, P1235, P1726, P469	Vasdeki D.	P239
Uskach T.M.	P372	Van Der Palen J.	1289, 687	Vashista S.	1350, P1668, P584
Usman M.F.	P975	Van Der Velden J.V.D.V.	P1872	Vasic Z.	P392
Ussov V.Y.	P500	Van Der Wal M.H.L.	705	Vasichkina E.	P1886, P1887, P2238,
Utemuratov B.B.	P1034	Van Empel V.P.M.	1936, P338		P517
Utin N.	P1844	Van Erp J.	P1196	Vasickina E.	38
Utsumueva M.	P1990	Van Ganse E.	P2108	Vasileiadis Ioannis V.I.	1335
Utuzhnikov A.	P2104	Van Gelder I.C.	1929	Vasilyev V.	P2129
Uydin S.M.	P1996, P1998, P1999	Van Gilst W.H.	P927	Vasilyeva L.I.	P527

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Vaskelyte L.	P2177	Verdejo Pinochet H.E.	P313	Vilacosta I.	P1045, P1576, P1711,
Vassaki M.	P1163	Verdonschot J.	P425		P2022
Vassilev D.	P2233, P612	Verdonschot J.A. J.	1980	Vilacostai I.	P1581
Vassiliou V.	P1648	Verdonschot J.A.J.	56, P257	Viljoen C.A.	P2149
Vassilopoulos D.	P1924	Verdu J.M.	P2027	Viljoen C.A.	P898
Vasylenko O.V.	P2009	Veretnik G.	P1784, P1786, P1788,	Villa M.	P1738
Vathesatogkit P.	P915		P2135, P2168	Villani G.Q.	160, P308
Vatic M.	P2078, P347	Vergara M.	P1824, P528	Villanueva J.A.	52
Vatutin N.	P1000	Vergaro G.	1327, 1482, 1939, 47,	Villevalde S.	P1112, P1123, P2093,
Vatutin N.T.	P1621		P302, P443, P930, P933		P464, P465
Vavilkina Z.	P1180	Verhestraeten C.	P928	Vilovic M.	P473
Vavuranakis E.	P1804	Verheyen N.	1348	Vilsboll T.	P964
Vazir A.	P1913	Verikas D.	P474	Vinck T.A.M.	708
Vazquez De Prada J.A.	P561	Verma S.	1278	Vinereanu D.	1962, P1641, P2245
Vazquez Montero A.	P331	Vernooy K.	P1544, P1546, P1989	Vinogradova N.G.	P2020, P2023
Vazquez S.	P1230, P2217, P434,	Vershinina E.	P2133	Vintila A.M.	P460
	P598	Vershinina T.	P1886, P1887, P2238,	Vintila V.	P2245, P460
Vazquez-Montes M.	P564		P517	Virag-Tulassay E.	P1889
Vazquez-Rodriguez P.	1333	Verstappen C.C.A.G.	708	Virdee M.	P1543
Veasey R.A.	P2043	Verstreken S.	P258, P497	Visaggi L.	P243
Veas-Porlan M.	P1259	Verstuk U.	P1542	Vishnevsky A.	P2237
Vecchi A.L.	P270	Vertesaljai M.	P589	Vishnyakova M.V.	P1996, P1998
Vecchio C.	P1089	Verwerft J.	P1568, P408	Vishram-Nielsen J.K.	P2019
Vedin O.	1975	Veselova O.M.	P1863	Vitale G.	P1021, P1697
Veena N.	P486	Veshi A.	P2231	Vitale N.	P1854
Veenis J.	1288	Vest A.	P379	Vitalini E.	P414
Veenis J.F.	P1664	Vestad B.	790	Vitlianova K.	P504
Veiga F.	P1701, P2175, P304, P909,	Vestri A.	P1613, P939	Vitrella G.	P1142, P936
	P981	Viana A.	44	Vitulano G.	P1013
Veklich A.	P1039	Viana Llamas M.	P1156	Vivas Balcones D.	P1576, P1581,
Velayos P.	P1571, P1573, P1722,	Viana Llamas M.E.	P1152, P1532		P1711, P2022
	P1847, P1848, P941	Vicedo Lopez A.V.L.	P567	Viveros D.	P1764
Velazquez Montero A.	P314	Vicent L.	P913	Viviana Frantellizzi V.F.	P1635
Velez A.	P1157	Victor K.	P1169, P2166	Viviana Maestrini V.M.	P1635
Velicki L.	P253	Vidal-Copal E.	P990	Vivsyanik I.	1978
Veljic I.	P1046, P448	Vida-Simiti L.A.	P1577	Vizir M.	P539
Venceviciene L.	P1900	Videbaek L.	57	Vlachakis D.	P620
Vencevicius K.	P1900	Vieira H.	P1011	Vlachopoulos C.	P1804, P513
Venialgo D.	P1764	Vieira S.	P303	Vlachos P.	1419
Venier E.	P2190, P980	Vieira T.	P1797, P301	Vladimirova L.	P2233, P612
Ventosa A.1430, P1632, P536, P931		Vieitez Florez J.M.	P1009, P1127,	Vlasenko A.	P1569, P1585
Ventura B.	P1589		P1177, P1178, P1228, P1674, P1688,	Vlasova E.	P2129, P2134, P599
Ventura Gomes R.	695, P1528,	Vieira H.	P1700, P315	Vogiatzi G.	P2080, P281
	P1723, P1739, P1755, P2057	Vieitez Florez J.M.	P1798	Vogiatzis I.	P283, P284, P549
Venzheha V.	P1000	Vigario A.	P1734, P1822	Vojtickova L.	P358
Venzheha V.V.	P1621	Vignati C.	1326, P1012, P1803,	Volkova S.U.	P430, P433
Vera O.	P1097		P449, P998	Volman S.	P335
Verde A.	P1024	Vijayaraghavan G.	P484	Volnes-Eriksen T.	P2011
Verdeja Vendrell L.	P314, P330,	Vijgen J.	P1891, P408	Volpe A.	P2196
	P340	Viklund I.	1938	Volynnikova E.	P2210
Verdejo H.	P1097	Vikoler E.	640	Volz S.	206, P492

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Vomvas A.	P274	Wallstrom S.	P1849	Wienecke L.M.	P583
Von Bardeleben R.S.	829	Walsh C.	P2033	Wiggers H.	1280, 57, P1629, P989
Von Haehling S.	P1159, P1160, P1161, P2078, P2186, P347	Walsh J.	690	Wigle J.	P623
Von Hafe P.	P1922	Walshe M.	P1759, P991, P996	Wijngaard Van Den A.	1980
Von Roeder M.	19, 830, P1802, P260	Walter J.E.	1937	Wikstroem G.	1290
Von Roeder M.D.W.	P2008	Walter J.W.	P2038	Wiley J.	P1042, P1659, P241
Von Spiczak J.	P1910	Wamberg J.	P466	Wilkenshoff U.	P1160
Vonk Noordegraaf A.	P1634	Wanczer A.	P968	Wilkoff B.L.	P376
Voors A.	199	Wanczura P.	P1557	Wille M.M.	P466
Voors A.A.	P469	Wang B.	P488	Willems T.P.	P1624
Voors A.A.	1281, 1285, 1291, 1336, 1431, 1469, 1929, 1931, 201, 205, 55, 7, P1235, P1726, P2007	Wang B.H.	P1244	Williams G.	50
Vorobev A.	P256, P498, P880	Wang B.-W.	P622	Winiarczyk M.	1485, P2152
Vorobiev A.P.	P1639	Wang C.Y.	P537	Winkler J.	P2193
Voronkov L.	1342, P1566, P1566, P326	Wang J.	11	Winkler L.	P631
Voronkov L.G.	P1049, P1725	Wang J.S.	P396	Winnik S.H.	P412
Voronkov L.G.	P1057, P1714	Wang P.	1980, P257	Wisniowska-Smialek S.	1485, P2152
Voronova A.	P1876, P618	Wang W.H.	P1120	Withaar C.	7
Voronova A.D.	P1258	Wang Y.	P609	Witkowski A.	P1646
Vos R.	56	Wang Y.G.	P1223	Witte K.	1284, 694
Votypka P.	P2223	Wang Y.P.	P345	Witteles R.	P518
Vouri N.	706	Wang Z.	P1248	Wleklik M.	P1006, P1206, P1850
Vozzi F.	P1854	Wanner C.	1278	Wnuk J.	1970
Vranes D.	P541	Ware J.S.	P1648	Wnuk T.	36
Vranic I.	P520	Warner K.G.	P379, P382	Woellenstein M.	P2178
Vranova J.	P405	Watson C.	1466, 1935, 61, P1176, P557, P578, P996	Wojciechowska A.	P966
Vrbinc Vrtek K.	P1612, P299	Wattel S.	P928	Wojta J.	P262
Vrsbka J.	P1032	Webb J.	197, 828, P2166	Wolf G.	1339, P1265
Vrettos A.	P978	Wegrzynowska-Teodorczyk K.	P2058	Wolff P.	P1541, P1893
Vrtovec B.	1290	Wei K.C.	P1120	Wollmer P.	P921
Vukasinovic J.	P392	Wei Y.	P1867	Wolsk E.	P2019, P389
Vukovic P.V.	P386	Weinlaender P.	P1159, P1160, P1161, P2186	Wolters M.	P1617
Vural A.	P1042, P241	Weinstein J.M.	198, 53, P1745, P1753, P472, P477	Wong H.	P1272
Vyalkina Y.	P2107	Weiss E.	P532	Wong T.	P1988
Vyoral D.	P2206	Weksler C.L.	P1747	Wonggom P.	703
Vyshlov E.V.	P500	Wen G.	P468	Woo J.	P1716, P2073, P2074
Vyshnevskaya I.R.	P1791, P1792, P1795	Wengert G.J.	P1231	Woo J.S.	P548
Wachter R.	1284, 694	Wentz R.J.	P463	Woo J.S.W.	P1524, P2173, P546
Waczulikova I.	P1262	Werner N.	P1184	Woolley R.J.	1469
Wada H.	P1770	Wernly B.	1339, P1865, P352	Worner-Diz F.	676
Wada T.	P470	Westenbrink B.D.	1467, P1624	Wouna Angong D.L.	P1717
Waddingham M.	P1241	Westermann M.	P1265	Wranicz J.	P1557
Wake H.	P1751, P1752	Westhoff-Bleck M.	P583	Wright P.	P1242
Wakula-Heinzl P.	P2200	Weston J.	1973, 1974	Wright S.	P254
Walczak T.	P1143, P1812, P437	Wettersten N.	P1074, P471	Wu C.Q.	P1760
Waldreus N.	P1847, P1848	Wheatley C.	P463	Wu S.	P491
		White M.K.	P574	Wuelfing P.	P282
		Wi J.	P1744, P459	Wulfraat C.J.	P1192
				Wurm R.	54
				Wussler D.	47
				Xabier Cia Mendioroz X.C.M.	
					P1099, P1104



# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Xanthopoulos A.	P2014, P2024, P929	Yarmolenko O.	P1261	Yu Y.	P1736, P1756, P1760
Xanthopoulou M.	P1804	Yarmosh I.	P1211	Yuan M.J.	P345
Xhaxho R.	P2231	Yarosh R.	P1094	Yuce E.I.	P963
Xia Z.L.	P345	Yasaka Y.	P2062	Yukino M.	P1746
Xie Y.	P1867	Yaseen I.F.	P615	Yurista S.R.	1467
Xu J.	15	Yasuda H.	P1130	Yushchuk E.	P2056
Xu X.	P1272	Yasuhara K.	P1679	Zabida A.	P2003, P272
Xue H.	1977	Yasui Y.	P391	Zace E.	P2171
Xuereb R.G.	P1649	Yatsu S.	P1071, P441	Zach D.	1348
Xydonas S.	P1043, P1055	Yatsyshina S.B.	P436	Zacharova M.I.	P2065
Yaari V.	P1038	Yau F.	P2073, P2074	Zaffalon D.	1483
Yacoub M.A.G.D.Y.	P2153	Yazaki M.	1481, P908	Zafra Cobos F.	P1555
Yacoub M.H.	P1814, P1816, P2154, P879	Ydelise Rodriguez Pichardo Y.R.P.	P1010	Zagidullin N.	P1119
Yagdi T.	P963	Yehia A.	P1816	Zaglia T.	1470
Yakovenko L.	1978	Yen Y.S.	P1750	Zagouri F.	P2190, P281
Yaku H.	1282, P1105, P1994	Yeo P.S.D.	P2007, P954	Zahalkova L.	P1078
Yakubovskaya E.E.	P1645, P2001	Yepanchintseva O.	P884	Zaharia M.R.	P1828, P2163
Yakushev A.	1328	Yeshniyazov N.B.	P1063, P545	Zaharov Y.V.	P888
Yakushiji T.	P1070, P1101, P462	Yesin M.	P514	Zahos P.	P1163
Yalin K.	P882	Yetim M.	P1153, P2172	Zahwe M.	P1672, P1676
Yam Y.	P232	Yiangou K.	P1163	Zaidenov V.A.	P1141, P1810
Yamac A.H.	1963, 839	Yildirimturk O.	P273, P291	Zaitsev V.	P2146
Yamada K.	P2234	Yilmaz M.B.	P316	Zaker S.	P2177
Yamada T.	P1907, P348, P470	Yilmaz M.E.H.M.E.T.	P1657	Zakhama L.	1461, 824, P1808, P2230
Yamaji K.	P1095	Yilmaz M.M.	P1153, P2172	Zakharevich A.	43
Yamakami Y.	P1675, P1683	Yilmaz U.	63	Zakharova A.	P2236
Yamamoto E.	1282, P1105, P1994	Yin W.-H.	P1047, P1653, P1669, P1680	Zakharova E.	P1818
Yamamoto M.	P462	Yin Y.	P1988	Zakirov N.	P906
Yamamoto M.H.	P1070, P1101	Yingchoncharoen T.	P915	Zakirova G.	P1710
Yamanaka S.	P947	Yokoi K.	P2062	Zakliczynski M.	P881
Yamanaka S.Y.	P952	Yokoi T.	P1704	Zaklyazminskaya E.	P581
Yamashina A.Y.	P2075	Yomkil Baye J.J.	P1717	Zaklyazminskaya E.V.	P1810, P2150, P251, P407, P519
Yamashita K.	P1070, P1101, P462	Yonetsu T.	P391	Zakova D.	1484
Yamka Y.P.	P597	Yoon H.J.	P1081, P458, P918	Zakrzenska-Koperska J.	P1202
Yamwong S.	P915	Yoon Y.E.	641, P1111	Zaleska-Kociecka M.	P1091, P363
Yan L.J.	P537	Yoshikawa K.	P1182	Zaletova T.	P1572, P892
Yaneva Sirakova T.	P612	Yoshikawa T.	P1746	Zamarreno Golvano E.	P594
Yang C.	P1702	Yoshikawa Y.	1282	Zamfir D.	P602
Yang D.H.	P1073, P1769, P2098	Yotov Y.T.	P1654	Zammit Burg M.	P2148
Yang J.	59, P259	Youn H.J.	1283, P1118, P290, P608	Zammit C.	P2101
Yang N.	P2207	Youn J.C.	1457, P1171	Zamora E.	1930, P1571, P1571, P1573, P1598, P1722, P295, P941
Yang X.	P1716, P2073, P2074	Young J.	P332	Zamorá R.	P335
Yang Y.M.	P491	Young R.	P2036	Zamorano Gomez J.L.	P1009, P1127, P1177, P1700, P2094, P2239
Yangui F.	1461	Yousfi C.	P926		P1178, P1228, P1674, P1688, P1798, P315
Yano M.	P1095, P1618, P1742, P2119	Yu J.	P637		
Yano M.Y.	P1526	Yu L.	P623		
Yap J.	P537	Yu L.I.T.I.A.N.	P1596		
Yarlas A.	P574	Yu M.	P2088		
Yarmohammadi H.	P1016	Yu W.	P1915, P1916		

# Authors

NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)	NAME	PROGRAMME NR(S)
Zampachova V.	1429, P1140	Zheleznykh E.	P1661		P1999
Zannad F.	1285, P2108, P257, P425	Zheng X.	P488	Zych B.	P1091, P363
Zannad N.	P1778, P2117	Zheng Y.	P1027	Zylberglait M.L.	P1048
Zanoni F.	P629	Zhenyu Zhang Z.Y.Z.	P967	Zymlinski R.	P2090, P454
Zapata M.C.	P2026	Zherebchikova C.	P1656	Zysko D.	P1541, P1893
Zapolska A.	P1143, P1812, P437	Zhirov I.	P1876, P618		
Zappulla P.	P2039	Zhirov I.V.	P372		
Zareba N.C.	P1579, P431	Zhizhov R.	P246		
Zareba W.	P2176	Zhu M.	1292		
Zarifis I.	P603	Zhu Q.	11		
Zarifis J.	P404	Zhubi Bakija F.	P1122		
Zarkalis D.	P353, P354	Zhubi E.	P1122, P1781		
Zaruba M.M.	640	Zhubi-Bakija F.	P1781		
Zarvalias V.	1338	Zhunussov B.K.	P1844		
Zatarain-Nicolas E.	P359	Zhuravleva E.	P1794		
Zatsepin A.	43	Ziegler B.L.	P463		
Zavadovskiy K.	P1547	Zielinski T.	P878, P966		
Zavadovsky K.	P1638, P1987	Zielonka M.	676		
Zaw H.	P1904	Zieroth S.	P520, P623		
Zawadzki J.M.	P1541, P1893	Ziginskiene E.	P2174		
Zbierska-Rubinkiewicz K.	P1264	Zilberman L.	1979		
Zdravkovic M.	P2183	Zima E.	1478		
Zdrengha D.	P1713, P336, P432	Zink M.	P882		
Zecchin M.	1483	Zinman B.	1278		
Zechner R.	16	Zinovieva Y.U.	P2236		
Zedde G.	P1225	Ziogas D.	P2187		
Zegarow P.	P244	Ziolkowska A.	P349		
Zegkos T.	P1875	Zirlik A.	1348		
Zeisberg E.M.	P1272	Zisis G.	P1754		
Zeman K.	P2122	Zivkovic P.M.	P473		
Zemanek D.	P1563	Zlabinger K.	P2193		
Zemleduch T.	P349	Zlatancheva G.	P612		
Zepeda Domínguez C.	P427, P428	Zlateva V.	P1651		
Zepeda-Domínguez C.	P1065, P424	Zlatic N.	P1121		
Zepeda-Domínguez C.R.	P420, P421	Zlobina I.	1480		
Zepeda-Domínguez C.R.	P2063, P2072, P416, P418, P419	Zlotina A.	P1887		
Zern E.	P1991	Zobenica V.	P1121		
Zeymer U.	P997	Zoccoli G.	49		
Zeynaliyeva F.	P328	Zografos N.	P1162, P2187, P2190, P980		
Zhan Y.	P379, P382	Zografos T.	P1894		
Zhang H.	P1867	Zorya O.	P1731		
Zhang J.	1973, 1974, P1760, P537	Zorya O.T.	P436		
Zhang J.Z.	P1756	Zuber M.	P2036		
Zhang K.	15, P2200	Zugazabeitia G.	P1667, P554, P562		
Zhang S.	1292	Zukowska K.	P878		
Zhang Y.	1292	Zverkova-Sandstrom T.	P447		
Zhang Z.B.	1292	Zvirblyte R.	P2174		
Zharinov O.	P884	Zwas D.R.	P935		
		Zyatenkova E.V.	P1996, P1998,		

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