

Elections to Council Nucleus and Nominating committee 2024-2026

Motivation letter: Why are you interested in joining the Council Nucleus or Nominating committee (250 words max)?

I hereby submit my candidacy for the position of Chairperson-Elect of the Council on Basic Cardiovascular Science (CBCS). I have been active within the ESC since 2014, as previous Chairperson of the ESC Working Group on Cardiac Cellular Electrophysiology (WGCCE), and as current Treasurer of the CBCS. As member of the ESC Communications Committee (2020-2024), I contribute to press and social media activities focussing on basic and translational science, including the “Translational Science for You” section of My ESC News. I am currently also a member of the ESC Advocacy Committee and the BioMed Alliance Health Research Committee.

I would like to use my broad experience within the ESC to further stimulate basic cardiovascular science within Europe and highlight its need to improve patient care.

As Chairperson-Elect, my key objectives would be to:

- Strengthen our scientific community and facilitate (multi-disciplinary) collaborations and exchange of knowledge and techniques by enhancing interaction between ESC Working Groups
- Increase visibility of basic science by highlighting key research developments (i.e. through representation within ESC Communication and Advocacy Committees)
- Ensure high quality scientific content by actively participating in the ESC Congress Programme Committee
- Expand educational activities (summer schools, (technical) courses, webinars, white papers)
- Mentor young basic scientists and create additional funding opportunities

I look forward to continue my active involvement in the CBCS, expanding and reshaping its role, increasing its impact and securing the future of basic science. I believe I have the necessary enthusiasm, commitment and experience for this challenge.

CURRICULUM VITAE – Carol Ann Remme MD PhD

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First Name: Carol Ann
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Academic qualifications:

1989-1997 Medical University, University of Utrecht, The Netherlands (MD degree)
2002 PhD degree obtained with thesis entitled “The ATP-sensitive potassium channel in the heart: functional, electrophysiological, and molecular aspects” (Faculty of Medicine, University of Amsterdam, The Netherlands)

Current employment:

2016 till date Associate Professor and Principal Investigator, Department of Experimental Cardiology, Amsterdam UMC, Academic Medical Center, University of Amsterdam, The Netherlands.
Research Group: Basic and Translational Cardiac Electrophysiology

Past employment:

1997-2000 Unexplained Cardiac Arrest Registry Europe (UCARE) (Department of Clinical Electrophysiology, Heart-Lung Institute, University Medical Center Utrecht, The Netherlands; Head: Prof. Dr. R.N.W. Hauer)
1997-2002 PhD student, Department of Experimental Cardiology, Experimental and Molecular Cardiology Group, Academic Medical Center, University of Amsterdam, The Netherlands (head: Prof. Dr. A.A.M. Wilde).
2002-2004 Residencies in Internal Medicine and Cardiology, Red Cross Hospital, Beverwijk and Academic Medical Center, Amsterdam, The Netherlands
2004-2014 Postdoctoral position/Research Associate, Department of Experimental Cardiology, Academic Medical Center, University of Amsterdam, The Netherlands
2014-2015 Assistant Professor, Department of Clinical and Experimental Cardiology, Academic Medical Center, University of Amsterdam, Amsterdam

Honours and awards (selected):

2018 Outstanding Achievement Award of the Council of Basic Cardiovascular Science (CBCS), European Society of Cardiology (ESC)
2018 Fellow of the European Society of Cardiology (FESC)
2016 Women Transforming Leadership Programme Award (ESC), Saïd Business School, University of Oxford
2014 Principal Investigator, Academic Medical Center, Amsterdam, The Netherlands
2014 Aspasia laureate, Netherlands Organization for Scientific Research (NWO)
2014 Vidi laureate, Netherlands Organization for Scientific Research (NWO)

Active research grants:

- 2024 Dutch Heart Foundation Public Private Partnership grant: PREVENT - Preventing lethal inherited arrhythmias through cardiac sodium channel gene therapy (applicant, PI)
- 2022 Dutch Heart Foundation Dekker Junior Postdoc grant: Unravelling the role of autonomic nervous system dysfunction in inherited arrhythmia syndromes (Mentored: awarded to Dr. Molly O'Reilly)
- 2021 European Joint Programme Rare Diseases (EJPRD): SILENCE-LQTS - SGK1 inhibition as a novel therapeutic approach in Long QT syndrome (co-applicant)
- 2020 Eurostars EUREKA: CARDIOMYO – An integrated HTS platform for the discovery of new therapeutics against cardiomyopathies (co-applicant)
- 2020 Innovation Impulse Grant, Amsterdam UMC, Proof-of-concept for precision medicine in inherited cardiac disorders (co-applicant)
- 2020 BHF-DZHK-DHF Partnership Research Grant, The Genomic basis of Unexplained Cardiac Arrest: The GenUCA Investigators (co-applicant)
- 2018 Cardiovascular Research Netherlands (CVON), Predicting sudden cardiac arrest (PREDICT2) (co-applicant, work package leader)

Current and previous (inter)national activities (selected):

- 2022-2024 Treasurer, Council on Basic Cardiovascular Science, European Society of Cardiology
- 2024 Local organizing committee, Frontiers in CardioVascular Biomedicine (Amsterdam, The Netherlands; April 12-14, 2024)
- 2020-2024 Member of the Communication Committee of the European Society of Cardiology, Basic Science Social Media Editor
- 2022-2024 Member of the Advocacy Committee of the European Society of Cardiology
- 2022-2024 Member of the Declaration of Interest Committee of the European Society of Cardiology
- 2020 till date Scientist member of the European Cardiac Arrhythmia Genetics (ECGen) focus group of the European Heart Rhythm Association
- 2020-2022 Member (ex-officio) of the Board of the European Heart Rhythm Association
- 2018-2020 Chair, Working Group on Cardiac Cellular Electrophysiology, European Society of Cardiology

- 2023 till date Deputy Editor, *EP Europace*
- 2021 till date Deputy Editor, *Physiological Reviews*
- 2021 till date Associate Editor, *Cardiovascular Research*
- 2018 till date Associate Editor, *Journal of the American Heart Association*

- 2021 till date Editorial Board Member of *Heart Rhythm*, *American Journal of Physiology - Heart and Circulatory Physiology*, *Canadian Journal of Cardiology*

- 2000 till date Reviewer for international journals (selected) *Journal of Clinical Investigation*, *Circulation*, *European Heart Journal*, *Circulation Research*, *Circulation Arrhythmia and Electrophysiology*, *Cardiovascular Research*, *Heart Rhythm*, *Europace*, *Cardiovascular Drugs and Therapy*, *British Journal of Pharmacology*, *Journal of Molecular and Cellular Cardiology*, *Canadian Journal of Cardiology*, *Physiological Genomics*, *Biochimica et Biophysica Acta - Molecular Cell Research*, *Frontiers in Cardiovascular Electrophysiology*, *Acta Physiologica*

Invited lectures (selected):

1. Remme CA. Targeting the microtubule network to prevent cardiac arrhythmias. *Frontiers in CardioVascular Biomedicine*, Amsterdam, April 12-14, 2024
2. Remme CA. Raising the bar: the role of preclinical models in the development of gene therapies for channelopathies. *EHRA Congress*, Berlin, April 7-9, 2024
3. Remme CA. Approach, Challenges, and Opportunities in Translational & Reverse Translational Experimental Designs. *Safety Pharmacology Society Annual Meeting*, September 19, 2023, Brussels, Belgium
4. Remme CA. When channelopathy causes DCM: the dark side of the sodium channel. *EHRA Congress*, April 16-18, 2023, Barcelona, Spain
5. Remme CA. Inherited cardiac disorders associated with sudden cardiac death. *6th Seattle Children's and Microsoft SIDS Research Summit*, April 26-27, 2023 (online)
6. Remme CA. Disease modifiers in channelopathies: implications for arrhythmia risk. *Association of Inherited Cardiac Conditions Meeting*, The Royal College of Physicians and Surgeons, Glasgow, UK, December 12, 2023
7. Remme CA. Pro-arrhythmic effects of elevated branched chain amino acids. *ESC Congress 2022*, August 26, 2022, Barcelona, Spain
8. Remme CA. Inherited arrhythmias associated with *SCN5A* mutations: a translational perspective. *14th Annual Scientific Session of the Korean Heart Rhythm Society*, June 24, 2022 (online)
9. Remme CA. Mechanisms underlying phenotype modulation in long QT syndrome. *88th Annual meeting of the German Cardiac Society*, April 22, 2022 (online)
10. Remme CA. Obesity, diet, and cardiac arrhythmias: mechanisms and clinical implications. *European Heart Rhythm Association (EHRA) Congress*, April 3-5, 2022, Copenhagen
11. Remme CA. Cardiac channelopathies. *Winter School 2022, Structural substrates for sudden death in the young – from genes to therapy*. March 28 – April 1, 2022, Padua, Italy
12. Remme CA. Pitfalls and opportunities of experimental models for arrhythmia research. *ESC Congress 2021*, August 30, 2021 (online)
13. Remme CA. Sodium channelopathies, arrhythmias and sudden cardiac death – novel mechanisms and therapeutic strategies. *36th Meeting of International Society for Heart Research (ISHR), European Section*; July 1st, 2022 (online)
14. Remme CA. Ventricular arrhythmias during the concealed early phase of arrhythmogenic cardiomyopathy prior to onset of overt cardiomyopathic changes. *Annual Meeting of the ESC Working Group on Myocardial and Pericardial Diseases*, October 4-5, 2019, A Coruna, Spain
15. Remme CA. Inherited arrhythmias and sudden cardiac death: Modulation of arrhythmia risk by genetic background and common co-morbidities. *Freiburg Cardiac Ion Channel Meeting*, 20-21 September 2019, Freiburg, Germany
16. Remme CA. Cardiac sodium channel remodelling: Microdomain-specific composition, function, and targeting. *Heart Rhythm Scientific Sessions*, May 8-11, 2019, San Francisco
17. Remme CA. Macromolecular organization of cardiac sodium channels. *Gordon Conference, Cardiac Arrhythmia Mechanisms*, March 30 - April 5, 2019, Italy
18. Remme CA. Modulation of arrhythmia risk by interactions of genetic variants and common co-morbidities. *Dutch German Joint Meeting on Molecular Cardiology*, March 14-16, 2019, Goettingen, Germany
19. Remme CA. Crucial Component: The Sodium Channel and Arrhythmogenicity. *American Heart Association Scientific Sessions*, Chicago, November 2018
20. Remme CA. Microdomain-specific trafficking and function of Nav1.5 in cardiomyocytes. *Annual Meeting of the European Working Group on Cardiac Cellular Electrophysiology (EWGCCE)*, June 2018, Essen, Germany

21. Remme CA. Arrhythmogenic right ventricular cardiomyopathy: Novel *SCN5A*-dependent mechanisms and clinical implications. 84th Annual Meeting of the German Cardiology Society, April 4-7, 2018, Mannheim, Germany
22. Remme CA. Splicing and trafficking as mechanisms of inherited arrhythmia diseases. Heart Rhythm Scientific Sessions, May 9-12, 2018, Boston, USA
23. Remme CA. Microdomain-specific sodium channel macromolecular complex composition and function in cardiomyocytes. *Frontiers in Cardiovascular Biology*, 2018, Vienna
24. Remme CA. Late sodium current inhibition in inherited arrhythmias. European Heart Rhythm Association Congress (Europace-Cardiostim), June 18-21, 2017, Vienna, Austria
25. Remme CA. Sodium Channels at the T-Tubule and their Role in Intracellular Calcium Homeostasis. Heart Rhythm Scientific Sessions, May 10-13, 2017, Chicago, IL, USA
26. Remme CA. Ventricular arrhythmias in channelopathies: drugs and device treatment. European Society of Cardiology Congress, Rome, Italy, August 27 – 31, 2016
27. Remme CA. *SCN5A* overlap syndromes. Scientific Sessions of the Heart Rhythm Society, May 4-7 2016, San Francisco, USA
28. Remme CA. *SCN5a* and the presence of cardiomyopathies. Scientific Sessions of the American Heart Association, November 7-11, 2015, Orlando, USA
29. Remme CA. Non-canonical functions of sodium channel proteins. European Society of Cardiology Congress, London, UK, August 29 – September 2, 2015
30. Remme CA. Desmosomes, sodium channels and the genesis of the arrhythmogenic substrate in ARVC. EHRA Europace – Cardiostim 2015, Milan, Italy, June 21-24, 2015
31. Remme CA. Cardiac channelopathies: novel insights in pharmacological treatment. Sudden Cardiac Death Symposium, Bern, Switzerland, 6-7 November 2014
32. Remme CA. Brugada syndrome – an experimental perspective. Heidelberg Heart Rhythm, 27-28 September 2013, Heidelberg, Germany
33. Remme CA. Sodium channel abnormalities and cardiac conduction disease. EHRA Europace, 23-26 June 2013, Athens, Greece
34. Remme CA. Genetic, molecular, and functional insights into the diverse roles of sodium channels in the heart. Ion Channel Symposium, 23-24 May 2013, Copenhagen, Denmark
35. Remme CA. Cardiac channelopathies. Heidelberg Heart Rhythm, 21-22 September 2012, Heidelberg, Germany
36. Remme CA. Cardiac sodium channelopathy: electrophysiology and beyond. Cardiac & Respiratory Physiology Themed Meeting of The Physiological Society, 4-6 September 2012, Manchester, United Kingdom
37. Remme CA. Brugada syndrome: a developmental perspective. European Society of Cardiology Congress 2011, 27-31 August 2011, Paris, France

Papers published in international peer-reviewed journals:

1. Nasilli G, de Waal TM, Marchal GA, Bertoli G, Veldkamp MW, Rothenberg E, Casini S, **Remme CA**. Decreasing microtubule detyrosination modulates Nav1.5 subcellular distribution and restores sodium current in mdx cardiomyocytes. *Cardiovasc Res*. 2024 Feb 23:cvae043
2. Wijnker PJM, Dinani R, van der Laan NC, Algül S, Knollmann BC, Verkerk AO, **Remme CA**, Zuurbier CJ, Kuster DWD, van der Velden J. Hypertrophic cardiomyopathy dysfunction mimicked in human engineered heart tissue and improved by sodium-glucose cotransporter 2 inhibitors. *Cardiovasc Res*. 2024 Mar 14;120(3):301-317.
3. **Remme CA**, Heijman J, Gomez AM, Zaza A, Odening KE. 25 years of basic and translational science in EP Europace: novel insights into arrhythmia mechanisms and therapeutic strategies. *Europace*. 2023 Aug 25;25(8):eua210.

4. Nasilli G, Yiangou L, Palandri C, Cerbai E, Davis RP, Verkerk AO, Casini S, **Remme CA**. Beneficial effects of chronic mexiletine treatment in a human model of SCN5A overlap syndrome. *Europace*. 2023 Jun 2;25(6):euad154.
5. Proost VM, van den Berg MP, **Remme CA**, Wilde AAM. *SCN5A*-1795insD founder variant: a unique Dutch experience spanning 7 decades. *Neth Heart J*. 2023 Jul 20. doi: 10.1007/s12471-023-01799-8.
6. **Remme CA**. *SCN5A* channelopathy: arrhythmia, cardiomyopathy, epilepsy and beyond. *Philos Trans R Soc Lond B Biol Sci*. 2023 Jun 19;378(1879):20220164.
7. Giannetti F, Barbieri M, Shiti A, Casini S, Sager PT, Das S, Pradhananga S, Srinivasan D, Nimani S, Alerni N, Louradour J, Mura M, Gneccchi M, Brink P, Zehender M, Koren G, Zaza A, Crotti L, Wilde AAM, Schwartz PJ, **Remme CA**, Gepstein L, Sala L, Odening KE. Gene- and variant-specific efficacy of serum/glucocorticoid-regulated kinase 1 inhibition in long QT syndrome types 1 and 2. *Europace*. 2023 May 19;25(5):euad094.
8. Marchal GA, Galjart N, Portero V, **Remme CA**. Microtubule plus-end tracking proteins: novel modulators of cardiac sodium channels and arrhythmogenesis. *Cardiovasc Res*. 2023 Jul 4;119(7):1461-1479.
9. van der Voorn SM, Bourfiss M, Muller SA, Çimen T, Saguner AM, Duru F, Te Riele ASJM, **Remme CA**, van Veen TAB. Circulating Biomarkers of Fibrosis Formation in Patients with Arrhythmogenic Cardiomyopathy. *Biomedicines*. 2023 Mar 7;11(3):813.
10. Tsui H, van Kampen SJ, Han SJ, Meraviglia V, van Ham WB, Casini S, van der Kraak P, Vink A, Yin X, Mayr M, Bossu A, Marchal GA, Monshouwer-Kloots J, Eding J, Versteeg D, de Ruiter H, Bezstarosti K, Groeneweg J, Klaasen SJ, van Laake LW, Demmers JAA, Kops GJPL, Mummery CL, van Veen TAB, **Remme CA**, Bellin M, van Rooij E. Desmosomal protein degradation as an underlying cause of arrhythmogenic cardiomyopathy. *Sci Transl Med*. 2023 Mar 22;15(688):eadd4248.
11. de Boer M, Te Lintel Hekkert M, Chang J, van Thiel BS, Martens L, Bos MM, de Kleijnen MGJ, Ridwan Y, Octavia Y, van Deel ED, Blonden LA, Brandt RMC, Barnhoorn S, Bautista-Niño PK, Krabbendam-Peters I, Wolswinkel R, Arshi B, Ghanbari M, Kupatt C, de Windt LJ, Danser AHJ, van der Pluijm I, **Remme CA**, Stoll M, Pothof J, Roks AJM, Kavousi M, Essers J, van der Velden J, Hoeijmakers JHJ, Duncker DJ. DNA repair in cardiomyocytes is critical for maintaining cardiac function in mice. *Aging Cell*. 2023 Mar;22(3):e13768. doi: 10.1111/accel.13768.
12. Casini S, Marchal GA, Kawasaki M, Fabrizi B, Wesselink R, Nariswari FA, Neefs J, van den Berg NWE, Driessen AHG, de Groot JR, Verkerk AO, **Remme CA**. Differential Sodium Current Remodelling Identifies Distinct Cellular Proarrhythmic Mechanisms in Paroxysmal vs Persistent Atrial Fibrillation. *Can J Cardiol*. 2023 Mar;39(3):277-288.
13. Marchal GA, **Remme CA**. Subcellular diversity of Nav1.5 in cardiomyocytes: distinct functions, mechanisms and targets. *J Physiol*. 2023 Mar;601(5):941-960.
14. Ripplinger CM, Glukhov AV, Kay MW, Boukens BJ, Chiamvimonvat N, Delisle BP, Fabritz L, Hund TJ, Knollmann BC, Li N, Murray KT, Poelzing S, Quinn TA, **Remme CA**, Rentschler SL, Rose RA, Posnack NG. Guidelines for assessment of cardiac electrophysiology and arrhythmias in small animals. *Am J Physiol Heart Circ Physiol*. 2022 Dec 1;323(6):H1137-H1166.
15. Zeppenfeld K, Tfelt-Hansen J, de Riva M, Winkel BG, Behr ER, Blom NA, Charron P, Corrado D, Dagres N, de Chillou C, Eckardt L, Friede T, Haugaa KH, Hocini M, Lambiase PD, Marijon E, Merino JL, Peichl P, Priori SG, Reichlin T, Schulz-Menger J, Sticherling C, Tzeis S, Verstrael A, Volterrani M; ESC Scientific Document Group. 2022 ESC Guidelines for the management of patients with ventricular arrhythmias and the prevention of sudden cardiac death. *Eur Heart J*. 2022 Aug 26;ehac262. doi: 10.1093/eurheartj/ehac262. (C.A. Remme: document reviewer)

16. **Remme CA.** Reply to Karadeniz et al.-Could Branched-Chain Amino Acids Be a New Landmark in Metabolic Syndrome and Cardiac Arrhythmias? *Can J Cardiol.* 2022 Aug;38(8):1327
17. Barc J, Tadros R, Glinge C, Chiang DY, Jouni M, ..., **Remme CA**, Postema PG, Delmar M, Ellinor PT, Lubitz SA, Gourraud JB, Tanck MW, George AL Jr, MacRae CA, Burridge PW, Dina C, Probst V, Wilde AA, Schott JJ, Redon R, Bezzina CR. Author Correction: Genome-wide association analyses identify new Brugada syndrome risk loci and highlight a new mechanism of sodium channel regulation in disease susceptibility. *Nat Genet.* 2022 May;54(5):735.
18. **Remme CA.** Getting to the heart of rhythm: a century of progress. *Physiol Rev.* 2022 Jul 1;102(3):1553-1567.
19. Tan HL, **Remme CA.** Sudden cardiac death: recognising hidden risk among women versus men. *Heart.* 2022 Jun 10;108(13):992-993.
20. Barc J, Tadros R, Glinge C, Chiang DY, Jouni M, Simonet F, Jurgens SJ, Baudic M, ..., Molina MS, Gimeno JR, Hasdemir C, Schwartz PJ, Crotti L, McKeown PP, Sharma S, Behr ER, Haissaguerre M, Sacher F, Rooryck C, Tan HL, **Remme CA**, Postema PG, Delmar M, Ellinor PT, Lubitz SA, Gourraud JB, Tanck MW, George AL Jr, MacRae CA, Burridge PW, Dina C, Probst V, Wilde AA, Schott JJ, Redon R, Bezzina CR. Genome-wide association analyses identify new Brugada syndrome risk loci and highlight a new mechanism of sodium channel regulation in disease susceptibility. *Nat Genet.* 2022 Mar;54(3):232-239.
21. Sapp JL, Krahn A, Stevenson WG, **Remme CA**, Philippon F, Nattel S. Understanding, Predicting, Preventing, and Treating Ventricular Arrhythmias: Pushing Sudden Death Into Overtime. *Can J Cardiol.* 2022 Apr;38(4):414-417.
22. Offerhaus JA, Joosten LPT, van Smeden M, Linschoten M, Bleijendaal H, Tieleman R, Wilde AAM, Rutten FH, Geersing GJ, **Remme CA**; CAPACITY-COVID collaborative consortium. Sex- and age specific association of new-onset atrial fibrillation with in-hospital mortality in hospitalised COVID-19 patients. *Int J Cardiol Heart Vasc.* 2022 Apr;39:100970. doi: 10.1016/j.ijcha.2022.100970.
23. van der Voorn SM, Bourfiss M, Te Riele ASJM, Taha K, Vos MA, de Brouwer R, Verstraelen TE, de Boer RA, **Remme CA**, van Veen TAB. Exploring the Correlation Between Fibrosis Biomarkers and Clinical Disease Severity in PLN p.Arg14del Patients. *Front Cardiovasc Med.* 2022 Jan 13;8:802998. doi: 10.3389/fcvm.2021.802998.
24. Remme CA. Sudden Cardiac Death in Diabetes and Obesity: Mechanisms and Therapeutic Strategies. *Can J Cardiol.* 2022 Apr;38(4):418-426.
25. van der Velden J, Asselbergs FW, Bakkers J, Batkai S, Bertrand L, Bezzina CR, Bot I, Brundel B, Carrier L, Chamuleau S, Ciccarelli M, Dawson D, Davidson SM, Dendorfer A, Duncker DJ, Eschenhagen T, Fabritz L, Falcão-Pires I, Ferdinandy P, Giacca M, Girao H, Gollmann-Tepeköylü C, Gyongyosi M, Guzik TJ, Hamdani N, Heymans S, Hilfiker A, Hilfiker-Kleiner D, Hoekstra AG, Hulot JS, Kuster DWD, van Laake LW, Lecour S, Leiner T, Linke WA, Lumens J, Lutgens E, Madonna R, Maegdefessel L, Mayr M, van der Meer P, Passier R, Perbellini F, Perrino C, Pesce M, Priori S, **Remme CA**, Rosenhahn B, Schotten U, Schulz R, Sipido K, Sluijter JPG, van Steenbeek F, Steffens S, Terracciano CM, Tocchetti CG, Vlasman P, Yeung KK, Zacchigna S, Zwaagman D, Thum T. Animal models and animal-free innovations for cardiovascular research: current status and routes to be explored. Consensus document of the ESC working group on myocardial function and the ESC Working Group on Cellular Biology of the Heart. *Cardiovasc Res.* 2022 Jan 6;cvab370. doi: 10.1093/cvr/cvab370.
26. Montañés-Agudo P, Casini S, Aufiero S, Ernault AC, van der Made I, Pinto YM, **Remme CA**, Creemers EE. Inhibition of minor intron splicing reduces Na⁺ and Ca²⁺ channel expression and function in cardiomyocytes. *J Cell Sci.* 2022 Jan 1;135(1):jcs259191. doi: 10.1242/jcs.259191.

27. Ravens U, Gomez AM, Heijman J, **Remme CA**, Dobrev D, Smith G, Volders PGA, Cerbai E, Eisner DA, Casadei B, Zaza A, Richard S, Mugelli A, Vassort G, Brown HF, Sipido KR. Edward Carmeliet (1930-2021)-channelling scientific curiosity: a tribute from the ESC Working Group on Cardiac Cellular Electrophysiology†. *Cardiovasc Res*. 2021 Dec 17;117(14):e171-e173.
28. Marsman EMJ, Postema PG, Remme CA. Brugada syndrome: update and future perspectives. *Heart*. 2022 May;108(9):668-675.
29. **Remme CA**, Leclercq C, Behr ER. The European Cardiac Arrhythmia Genetics (ECGen) Focus Group. *Eur Heart J*. 2022 May 21;43(20):1891-1894.
30. Samson WK, Yosten GLC, **Remme CA**. A primer on obesity-related cardiomyopathy. *Physiol Rev*. 2022 Jan 1;102(1):1-6.
31. Behr ER, Scrocco C, Wilde AAM, Marijon E, Crotti L, Iliodromitis KE, **Remme CA**, Kosiuk J, Rudaka I, Brugada GS, Frampton K, Schulze-Bahr E, Jubele K, de Asmundis C, Hofman N, Tfelt-Hansen J, Boveda S, Conte G. Investigation on Sudden Unexpected Death in the Young (SUDY) in Europe: results of the European Heart Rhythm Association Survey. *Europace*. 2022 Feb 2;24(2):331-339.
32. Odening KE, Gomez AM, Dobrev D, Fabritz L, Heinzel FR, Mangoni ME, Molina CE, Sacconi L, Smith G, Stengl M, Thomas D, Zaza A, **Remme CA**, Heijman J. ESC working group on cardiac cellular electrophysiology position paper: relevance, opportunities, and limitations of experimental models for cardiac electrophysiology research. *Europace*. 2021 Nov 8;23(11):1795-1814.
33. Masri A, **Remme CA**, Jneid H. #Cardiotwitter: The Global Cardiology Fellowship. *J Am Heart Assoc*. 2021 Jul 20;10(14):e020719.
34. Portero V, Nicol T, Podliesna S, Marchal GA, Baartscheer A, Casini S, Tadros R, Treur JL, Tanck MWT, Cox IJ, Probert F, Hough TA, Falcone S, Beekman L, Müller-Nurasyid M, Kastenmüller G, Gieger C, Peters A, Kääh S, Sinner MF, Blease A, Verkerk AO, Bezzina CR, Potter PK, **Remme CA**. Chronically elevated branched chain amino acid levels are pro-arrhythmic. *Cardiovasc Res*. 2022 Jun 22;118(7):1742-1757.
35. Marchal GA, Jouni M, Chiang DY, Pérez-Hernández M, Podliesna S, Yu N, Casini S, Poter F, Veerman CC, Klerk M, Lodder EM, Mengarelli I, Guan K, Vanoye CG, Rothenberg E, Charpentier F, Redon R, George AL Jr, Verkerk AO, Bezzina CR, MacRae CA, BurrIDGE PW, Delmar M, Galjart N, Portero V, **Remme CA**. Targeting the Microtubule EB1-CLASP2 Complex Modulates NaV1.5 at Intercalated Discs. *Circ Res*. 2021 Jul 23;129(3):349-365.
36. Marchal GA, van Putten M, Verkerk AO, Casini S, Putker K, van Amersfoort SCM, Aartsma-Rus A, Lodder EM, **Remme CA**. Low human dystrophin levels prevent cardiac electrophysiological and structural remodelling in a Duchenne mouse model. *Sci Rep*. 2021 May 7;11(1):9779.
37. Verkerk AO, Marchal GA, Zegers JG, Kawasaki M, Driessen AHG, **Remme CA**, de Groot JR, Wilders R. Patch-Clamp Recordings of Action Potentials From Human Atrial Myocytes: Optimization Through Dynamic Clamp. *Front Pharmacol*. 2021 Apr 12;12:649414.
38. Cason M, Celeghin R, Marinas MB, Beffagna G, Della Barbera M, Rizzo S, **Remme CA**, Bezzina CR, Tiso N, Bauce B, Thiene G, Basso C, Pilichou K. Novel pathogenic role for galectin-3 in early disease stages of arrhythmogenic cardiomyopathy. *Heart Rhythm*. 2021 Aug;18(8):1394-1403.
39. Asatryan B, Yee L, Ben-Haim Y, Dobner S, Servatius H, Roten L, Tanner H, Crotti L, Skinner JR, **Remme CA**, Chevalier P, Medeiros-Domingo A, Behr ER, Reichlin T, Odening KE, Krahn AD. Sex-Related Differences in Cardiac Channelopathies: Implications for Clinical Practice. *Circulation*. 2021 Feb 16;143(7):739-752.
40. Roudijk RW, Taha K, Bourfiss M, Loh P, van den Heuvel L, Boonstra MJ, van Lint F, van der Voorn SM, Te Riele ASJM, Bosman LP, Christiaans I, van Veen TAB, **Remme CA**, van den Berg MP, van Tintelen JP, Asselbergs FW. Risk stratification and subclinical

- phenotyping of dilated and/or arrhythmogenic cardiomyopathy mutation-positive relatives: CVON eDETECT consortium. *Neth Heart J*. 2021 Jun;29(6):301-308.
41. Matalon S, **Remme CA**, Samson WK. PHYSIOLOGICAL REVIEWS: THE PAST, THE PRESENT, AND THE FUTURE. *Physiol Rev*. 2021 Apr 1;101(2):733-738.
 42. Gómez AM, Heijman J, **Remme CA**. The ESC Working Group Cardiac Cellular Electrophysiology. *Eur Heart J*. 2020;41(46):4374-4376.
 43. Simon MA, Ahmad F, Eitzman DT, Gupta AK, Jneid H, Peterson P, **Remme CA**, Rice K, Schelbert EB, Sullivan LM, Weinberg JM. Equity, Diversity, and Inclusiveness in Cardiovascular Medicine and Health Care. *J Am Heart Assoc*. 2020;9(20):e019137.
 44. London B, Ahmad F, Eitzman DT, Gupta AK, Jneid H, Peterson P, **Remme CA**, Rice K, Schelbert EB, Simon MA, Sullivan LM, Weinberg JM. Diversity, Equity, and Inclusiveness in Medicine and Cardiology: Next Steps for JAHA. *J Am Heart Assoc*. 2020;9(20):e019307.
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- “Transgenic models of cardiac arrhythmias and sudden death”, edited by **C.A. Remme** (2013, eBook, Frontiers)
- “Channelopathies in Heart Disease”, edited by D. Thomas and **C.A. Remme** (2018, Springer)

Book Chapters:

- **Remme CA**. Cardiac sodium channel (dys)function and inherited arrhythmia syndromes. In: *Channelopathies in Heart Disease*, 2018, Springer
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