

Copenhagen Meeting on Cardiac Arrhythmia



Copenhagen | Sep 28-30 | 2022

Novo Nordisk Foundation's Lecture Hall

Organizing committee

Alicia Lundby | Bo Hjorth Bentzen | Stig Haunsø

Morten Salling Olesen | Søren-Peter Olesen | Nicole Schmitt

Wednesday | Sep 28 | chaired by Nicole Schmitt & Søren-Peter Olesen

8:30 – 9:00 Registration

9:00 – 9:15 Nicole Schmitt, University of Copenhagen, Denmark
Welcome address and introduction to the day

9:15 – 10:00 **Opening lecture**

Didier Stainier
Zebrafish in atrial myopathy research

SESSION I

Atrial myopathies – atrial fibrillation

10:00 – 10:30 Hilma Holm, DeCode, Iceland
What genomics has taught us about atrial arrhythmias

10:30 – 11:00 Coffee break

11:00 – 11:30 Svetlana Reilly, Oxford University, UK
The role of paracrine signalling by cardiac calcitonin in fibrogenesis and atrial arrhythmia

11:30 – 12:00 Xander Wehrens, Baylor College of Medicine, Houston, Texas
PPP1R3A in atrial fibrillation and atrial-specific gene delivery

12:00 – 13:00 Lunch break

13:00 – 13:30 Morten Olesen, University of Copenhagen, Denmark
Genetics of atrial cardiomyopathy, AF and stroke

13:30 – 13:45 Jonas Ghouse
Genetics of adverse drug reaction associated with ACE inhibitors

13:45 – 14:15 Søren Diederichsen, Rigshospitalet, Denmark
Atrial fibrillation detected by implanted loop recorders

14:15 – 14:30 Vincent Christoffels, Amsterdam University Medical Centers, The Netherlands
Gene regulatory mechanisms important for atrial rhythm maintenance

14:30 – 16:00 Bus transfer to Faculty Club at University of Copenhagen. Talk to peers.
Coffee and cake with phenomenal city view

SESSION II

Workshops – interactive sessions (@ Faculty Lounge)

- 16:00 – 18:00
- Publish your paper – the editor view
 - Use your own device - health in digital times
 - Exploit information from biobank data repositories – an introduction
 - Translate your research - from basic research to drug
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18:00 – 22:00 Sushi and bubbles dinner with penthouse view of Copenhagen at night

Thursday | Sep 29 | chaired by Alicia Lundby & Bo Hjorth Bentzen

9:00 – 9:05 Alicia Lundby, University of Copenhagen, Denmark
Introduction to the day

9:05 – 09:45 **Opening lecture**
Calum MacRae
Big data and new technologies for deep phenotyping in CVD

SESSION III

Cardio-oncology and arrhythmias

09:45–10:15 Rudolf de Boer, University of Groningen, The Netherlands
Cancer development in patients with cardiovascular disease

10:15 – 10:45 **Coffee break**

10:45 – 11:15 Paul Burridge, Northwestern University, USA.
Using hiPSCs to explicate genomic predisposition to onco-therapeutic cardiotoxicity

11:15 – 11:30 Robert W. Mills, University of Copenhagen
Cardiac signaling remodeling by arrhythmogenic tyrosine kinase inhibitors

11:30 – 12:00 Joe-Elie Salem, Sorbonne University, France
Sexual Dimorphism, Anti-hormones and Cardiac Arrhythmias: A Focus on QT

12:00 – 13:00 **Lunch break**

SESSION IV

Poster session - view, discuss and mingle

13:00 – 14:30 **Co-chaired by the Danish Cardiovascular Academy (DCA) and the Special Interest Group on Cardiac Physiology of the Scandinavian Physiological Society**

14:30 – 15:00 **Coffee break**

SESSION V

Studying arrhythmias – technologies and data analyses

15:00 – 15:30 Sean Wu, Stanford University
Tissue engineering with hiPSC-CMs for modeling heart disease

15:30 – 16:00 Alicia Lundby
Multi-omics approaches to study ARVC

16:00 – 16:30 Norbert Hubner, Max Delbrück Center for Molecular Medicine, Berlin
Single cell transcriptomics of the adult human heart

16:30– 17:00 Peipei Ping, University of California Los Angeles, USA
Integrated omics dissection of proteome dynamics during cardiac remodeling

17:30 – 22:00 **Dinner at classic Danish restaurant in Tivoli followed by tour of Tivoli.**

Friday | Sep 30 | chaired by Morten Salling Olesen & Stig Haunsø

9:00 – 9:05 Stig Haunsø, University Hospital Copenhagen, Denmark
Introduction to the day

9:05 – 09:45 **Opening lecture**
Dale Abel, University of California Los Angeles, USA
Insulin signaling in cardiac remodeling

SESSION VI

It's complicated- complexity of arrhythmias

9:45 – 10:15 Daniel Pijnappels, University of Leiden, The Netherlands
Biological defibrillation - Exploiting the heart's electrical activity for anti-arrhythmic therapy

10:15 – 10:30 Short talk selected from best submitted abstract

10:30 – 11:00 **Coffee break**

11:00 – 11:30 Mario Delmar, New York University, USA
Ca²⁺ signaling as substrate in arrhythmias coupled to the desmosome

11:30 – 11:45 Constanze Schmidt, University of Heidelberg, Germany
Electrical remodeling in atrial fibrillation

11:45 – 12:00 Dominik Linz, University of Copenhagen
Life style affectors in atrial arrhythmias

12:00 – 12:30 Michael Gotthardt, Max Delbrück Center for Molecular Medicine, Berlin
RBM20 as a therapeutic target –the role in arrhythmia and heart failure

12:30 – 12:45 Søren-Peter Olesen and Nicole Schmitt
Poster award and closing remarks

12:45 – 14:30 **Lunch and farewell**