

# 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

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

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9:15 – 10:00 **Opening lecture**

Didier Stainier

*Genetic compensation in cardiovascular diseases*

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SESSION I

**Atrial myopathies – atrial fibrillation**

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

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10:30 – 11:00 Coffee break

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

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

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12:00 – 13:00 Lunch break

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

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

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

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

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

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SESSION II

**Workshops – interactive sessions (@ Faculty Lounge)**

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- 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

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

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

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

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### SESSION III

#### **Cardio-oncology and arrhythmias**

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

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10:15 – 10:45 **Coffee break**

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

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

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

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12:00 – 13:00 **Lunch break**

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### SESSION IV

#### **Poster session** - view, discuss and mingle

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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**

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14:30 – 15:00 **Coffee break**

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### SESSION V

#### **Studying arrhythmias – technologies and data analyses**

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

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

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

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

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17:00 – 23:00 **Harbour cruise to the Opera House. Dinner at Restaurant Almanak followed by ballet ‘Karen Blixen’ about the life of the famous storyteller at the Royal Theater, Opera House.**

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

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

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9:05 – 09:45 **Opening lecture**

Dale Abel, University of California Los Angeles, USA  
*Insulin signaling in cardiac remodeling*

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SESSION VI

**It's complicated- complexity of arrhythmias**

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

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10:15 – 10:30 Short talk selected from poster submissions

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10:30 – 11:00 **Coffee break**

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11:00 – 11:30 Mario Delmar, New York University, USA  
*Ca<sup>2+</sup> signaling as substrate in arrhythmias coupled to the desmosome*

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

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

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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

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

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12:45 – 14:30 **Lunch and farewell**