

Satellite meeting on Cardiac Physiology

The Special Interest Group on Cardiac Physiology of the Scandinavian Physiological Society is arranging an exciting satellite meeting on the day before the Europhysiology meeting in London in 2018. To celebrate the plans to have a series of biennial joint meetings of *The Physiological Society*, *the Scandinavian Physiological Society*, *the Deutsche Physiologische Gesellschaft* and the *Federation of European Physiological Societies*, we invite all scientists with an interest in cardiac physiology to participate.

Venue: Queen Elizabeth II Centre, London

Time: Sept 13th 2018, 12-8 pm

Attendance is free, but registration to Europhysiology 2018 is required. Food and drinks will be provided.

Organisation: William E Louch, University of Oslo
Morten B Thomsen, University of Copenhagen
Tobias Wang, Aarhus University

Sponsor: Scandinavian Physiological Society

12:00 Registration and lunch

Lunch will be provided on the fifth floor of the conference centre together with the SPS Special Interest Groups on Vascular Physiology and Skeletal Muscle Physiology.

1:00 Welcome address

1:10-3:10 EC coupling and arrhythmia

1:10 "Calcium Dysregulation and Arrhythmogenesis in Heart Failure"

Donald M Bers
Department of Pharmacology, University of California, Davis

1:40 "Late Ca²⁺ Sparks: not just a flash in the pan"

Mark Cannell
Department of Physiology, Pharmacology & Neuroscience, University of Bristol

2:10 "T-tubule remodelling and the extracellular matrix"

David Crossmann
Department of Physiology, University of Auckland

2:30 "The pharynx of *C. elegans* as an optogenetic arrhythmia model to study catecholaminergic polymorphic ventricular tachycardia mutations"

Christina Schuler
Buchmann Institute for Molecular Life Sciences & Institute of Biophysical Chemistry, Goethe University Frankfurt

2:50 "Ventricular fibrillation during acute myocardial infarction – from a pig's perspective"

Thomas Jespersen
Department of Biomedical Sciences, University of Copenhagen

3:10-3:30 Coffee

3:30-4:30

The Heart in Exercise

3:30

“Vagal control of the left ventricle and exercise capacity”

Alexander Gourine

Neuroscience, Physiology and Pharmacology, University College London

3:50

“Bradycardia, heart block and nocturnal pauses in the athlete”

Mark Boyett

Division of Cardiovascular Sciences, University of Manchester

4:10

“Exercise-induced changes in cardiac function and metabolism”

Ellen Aasum

Department of Medical Biology, Arctic University of Norway

4:30-5:30

Stem cells in the Heart

4:30

“Repolarization in human IPS-CM”

Torsten Christ

Department of Internal Medicine, University of Hamburg

4:50

“Making of a human heart patch from ventricular progenitors”

Kylie Foo

Department of Medicine, Karolinska Institute

5:10

“Bioengineering approaches for cardiac regeneration”

Limor Zwi-Dantsis

Department of Materials, Imperial College London

5:30-6:30

Finger food

6:30-8:00

Comparative cardiac physiology - can we learn from other species?

6:30

“What drove the evolution of the four-chambered heart in mammals?”

Tobias Wang

Department of Bioscience, Aarhus University, Denmark

6:50

“Atrial fibrillation in horses: comparative perspectives”

Rikke Buhl

Department of Large Animal Sciences, University of Copenhagen, Denmark

7:10

“Ectotherm hearts: rethinking remodeling”

Holly Shiels

Division of Cardiovascular Sciences, University of Manchester

7:30

“Extremely cold hearts: fish physiology on Antarctica”

Michael Axelsson

Department of Biological and Environmental Sciences, University of Gothenburg

7:50

Closing remarks

8:00

Drinks and network opportunities