

# Ion Channel Symposium

May 27<sup>th</sup> –28<sup>th</sup> | 2010

The Royal Danish Academy of Sciences and Letters



## ORGANIZER

Søren-Peter Olesen, MD PhD

The Danish National Research Foundation Centre for Cardiac Arrhythmia

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## ORGANIZING COMMITTEE

Nicole Schmitt, Hanne Borger Rasmussen, Palle Christophersen

## REGISTRATION

Please register online by May 1<sup>st</sup> 2010 at <http://darc.ku.dk/symposium/>

Please indicate whether you will participate on day 1, day 2 or both. Further, please sign up for the social program.

PhD students get 1.5 ECTS points. Students of the University of Copenhagen **MUST** additionally register with the PhD administration.

## PARTICIPATION

Free

## SUPPORTED BY

The Danish National Research Foundation Centre for Cardiac Arrhythmia (DARC);

Faculty of Health Sciences, University of Copenhagen;

Danish Cardiovascular Research Academy (DaCRA);

Graduate School of Neuroscience;

NeuroSearch A/S

## Thursday May 27<sup>th</sup>

Chairmen: Søren-Peter Olesen & Nicole Schmitt

### Ion Channels in the Heart

- 8:30 – 9:00 Registration
- 9:00 – 9:45 **Dan Roden** (Vanderbilt University, USA)  
*Common and rare genetic variants in arrhythmia susceptibility*
- 9:45 – 10:30 **Isabelle Deschênes** (Case Western U, Cleveland, USA)  
*Role of sodium channel polymorphisms in arrhythmia*
- 10:30 – 10:50 Coffee
- 10:50 – 11:35 **Yi-Han Chen** (Tongji University, China)  
*Potassium channel mutations in cardiac arrhythmia*
- 11:35 – 11:55 **Oleg Osadchii** (University of Copenhagen, Denmark)  
*Sodium channel distribution and electrophysiological heterogeneities in guinea-pig ventricular tissue*
- 12:00 – 13:00 Lunch
- 13:00 – 13:45 **William Kobertz** (University of Massachusetts, USA)  
 *$I_{Ks}$  complex glycosylation and assembly*
- 13:45 – 14:05 **Katarzyna Krzystanek** (University of Copenhagen, Denmark)  
*Regulation of the cardiac  $I_{Ks}$ -channel complex by ubiquitylation and de-ubiquitylation*
- 14:05 – 14:25 **Bo Hjorth Bentzen** (University of Copenhagen, Denmark)  
*Pharmacological hERG activation in transgenic LQT1 rabbits*
- 14:25 – 14:45 Coffee
- 14:45 – 15:30 **Jamie Vandenberg** (Victor Chang Cardiac Research Institute, Australia)  
*Kv11.1 channel dysfunction*
- 15:30 – 16:15 **Goran Duker** (AstraZeneca, Sweden)  
*Novel atrial anti-arrhythmics*
- 16:15 Brew lecture

## Friday May 28<sup>th</sup>

Chairmen: Hanne Borger Rasmussen & Palle Christophersen

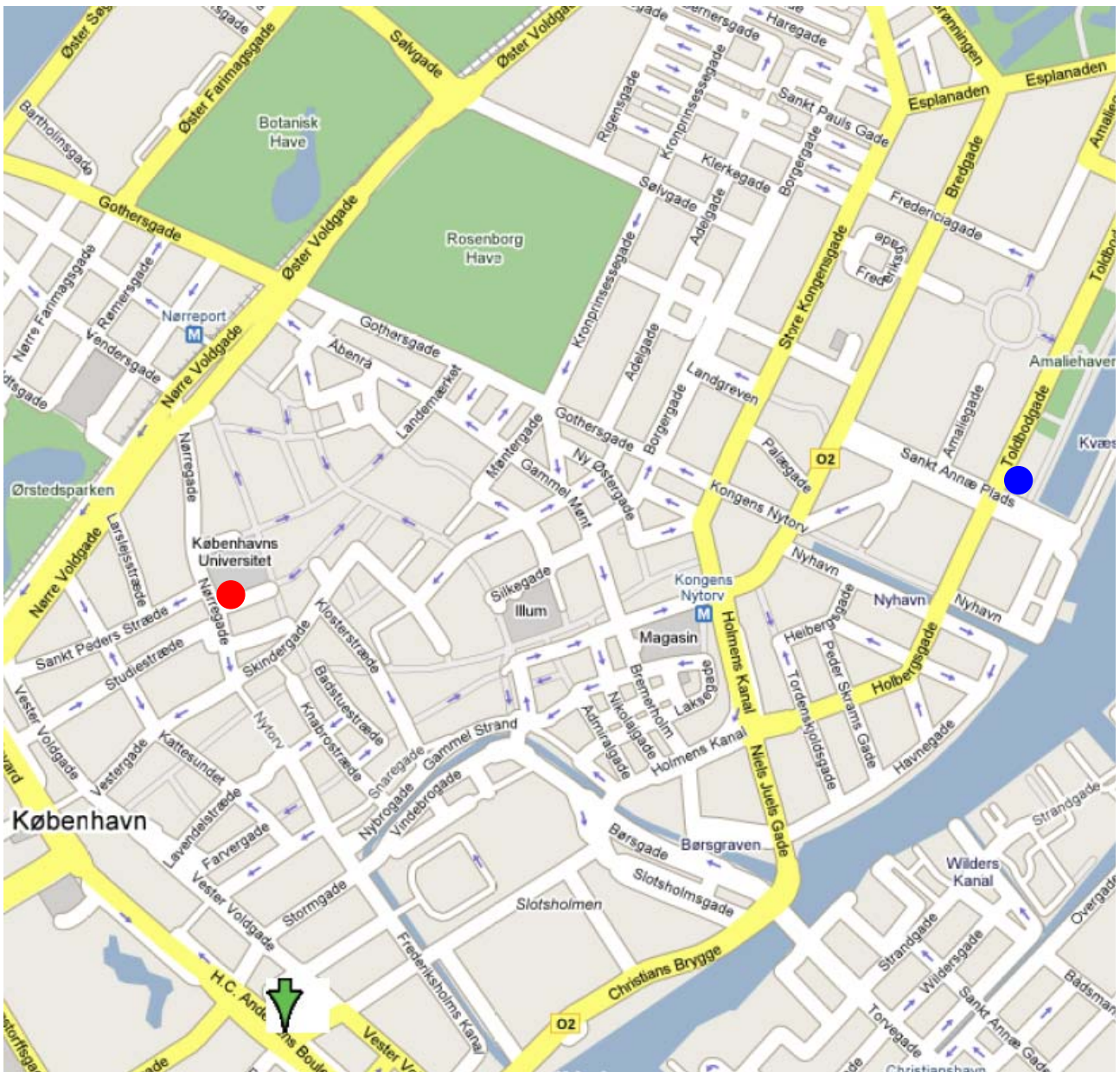
### Subcellular Organization and Function of Ion Channels in Neurons

- 9:00 – 9:45     **Matthew Rasband** (Baylor College of Medicine, USA)  
*Assembly of the axon initial segment*
- 9:45 – 10:30   **Maarten H P Kole** (Australian National University, Australia)  
*Gating properties and functional roles of axon initial segment Kv7 channels*
- 10:30 – 10:50   Coffee
- 10:50 – 11:35   **Hiroaki Misonou** (University of Maryland, USA)  
*Distinct vesicular trafficking of dendritic ion channels in mammalian neurons*
- 11:35 – 11:55   **Mette Gilling Nielsen** (University of Copenhagen, Denmark)  
*KCNQ3 - a putative autism susceptibility gene*
- 12:00 – 13:00   Lunch

### Chloride channels

- 13:00 – 13:45   **Criss Hartzell** (Emory University School of Medicine, USA)  
*Ca-activated Cl channels: Role of Bestrophins*
- 13:45 – 14:30   **Michael Pusch** (Istituto di Biofisica, Consiglio Nazionale delle Ricerche, Italy)  
*ClC-5, a human nucleotide regulated Cl(-)/H(+) exchanger*
- 14:30 – 14:50   Coffee
- 14:50 – 15:35   **Christian Aalkjær** (U Aarhus, Denmark)  
*Ca-activated Cl channels in vascular smooth muscle cells*
- 15:35 – 15:55   **Thomas Kjær Klausen** (U Copenhagen, Denmark)  
*Chloride Channels as Cell Cycle Regulators in Ehrlich Lettré Ascites Cells*
- 16:00            Brew lecture
- 19:00            **Dinner and Get-together in Munkekælderen**, University of Copenhagen

## Directions



Area map ([www.maps.google.com](http://www.maps.google.com)) – Green arrow: Symposium venue (H.C Andersens Boulevard 35); red circle: Dinner and Get-together at Munkekælderen (Nørregade 10); blue circle: Hotel Admiral (Toldboldgade 2).