**Ion Channel Symposium**

May 28th –29th, 2009

**Venue:** Carlsberg Academy  
Gl. Carlsberg Vej, Copenhagen, Denmark  
([http://www.carlsbergfondet.dk/Akademi/index.htm](http://www.carlsbergfondet.dk/Akademi/index.htm))

**Organizer:** Søren-Peter Olesen, MD PhD  
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**Organizing Committee:**  
Nicole Schmitt, Hanne Borger Rasmussen, Palle Christophersen, Søren-Peter Olesen

**Registration:** Please register online by May 1st 2009 at http://darc.ku.dk/symposium_2009/.  
Please indicate whether you will participate on day 1, day 2 or both.  
PhD students get 1.5 ECTS points. Students should by registration indicate their university and faculty.

**Participation:** Free

**Supported by** Danish Arrhythmia Research Centre (DARC);  
Faculty of Health Sciences, University of Copenhagen;  
Danish Cardiovascular Research Academy; Graduate School of Neuroscience;  
NeuroSearch
**Program - Thursday May 28**

*Chairmen: Søren-Peter Olsen & Nicole Schmitt*

9:00 – 9:05  Welcome

**SODIUM CHANNELS**

9:05 – 9:50  **John Wood** (U London, UK)
- Nav channels

9:50 – 10:35  **Erik Jorgensen** (U Utah, USA)
- NCA ion channels

10:35 – 11:05  Coffee

**Kv7 CHANNEL REGULATION**

11:05 – 11:50  **Mark Shapiro** (U Texas, USA)
- Regulation of neural Kv7 channels: signalling pathways, structural motifs and functional implications

11:50 – 12:10  Short talk of PhD student or Postdoc

12:10 – 12:30  Short talk of PhD student or Postdoc

12:30 – 13:30  Lunch

13:30 – 14:15  **Gea-Ny Tseng** (Virginia Commonwealth University, USA)
- Dynamic subunit interactions in the I_{Ks} channel complex

14:15 – 15:00  **Isabelle Baró** (U Nantes, France)
- I_{Ks} regulation by protein kinase A

15:00 – 15:30  Coffee

**DYSFUNCTIONAL POTASSIUM CHANNELS**

15:30 – 16:00  **Yi-Han Chen** (Tongji University, China)
- Potassium channel mutations in cardiac arrhythmia

16:00 – 16:30  **Klaus Steinmeyer** (Sanofi-Aventis, Germany)
- Early K-channel blockers for the treatment of atrial arrhythmias

16:30 -  Brew lecture
Program - Friday May 29th
Chairmen: Hanne Borger Rasmussen & Palle Christophersen

9:00 – 9:05  Welcome

Kv4 CHANNELS– TRANSIENT OUTWARD CURRENTS
9:05 – 9:50  Manuel Covarrubias (Thomas Jefferson University, USA)
The Neuronal Kv4 Channel Complex
9:50 – 10:35  Jonathan Cordeiro (Masonic Medical Research Laboratory, USA)
Ito regulation

10:35 – 11:05  Coffee

11:05 – 11:50  Robert Bähring (U Hamburg, Germany)
Role of N-terminal domain and accessory subunits in controlling deactivation-inactivation coupling of Kv4.2 channels
11:50 – 12:10  Short talk of PhD student or Postdoc
12:10 – 12:30  Short talk of PhD student or Postdoc

12:30 – 13:30  Lunch

CALCIUM-ACTIVATED POTASSIUM CHANNELS
13:30 – 14:15  Paola Pedarzani (U London, UK)
Role of SK channels in slow afterhyperpolarization
14:15 – 15:00  Heike Wulff (U California Davis, USA)
Modulators of small- and intermediate-conductance calcium-activated potassium channels and their therapeutic indications

15:00 – 15:30  Coffee

15:30 – 15:50  Short talk of PhD student or Postdoc
15:50 – 16:10  Short talk of PhD student or Postdoc
16:10 – 16:30  Short talk of PhD student or Postdoc

16:30  Brew lecture
19:00  Dinner and Get-together in Munkekælderen, University of Copenhagen