

## DAY 1. Wednesday, 11<sup>th</sup> September, 2024

08.00 Registration – Tea/Coffee

09.00 Welcome Remarks – Fredrik Elinder – Linköping University

---

### Session 1 – Chair: Fredrik Elinder – Linköping University

---

09.10 Thomas Jepps – University of Copenhagen  
Microtubule trafficking of Kv7 channels

09.35 Kirstine Callø – University of Copenhagen  
The multifocal ectopic Purkinje-related premature contraction (MEPPC) syndrome and the G213D Nav1.5 variant

10.00 Peter Larsson – Linköping University  
Developing activators of cardiac ion channels to prevent arrhythmia

10.25 [Tea/Coffee, Exhibits and Posters](#)

---

### Session 2 – Chair – Kim Boddum – Sophion Bioscience

---

11.10 Ralf Hausmann – Aachen University  
Papaverine induced ventricular fibrillation related to genetic variants of the cardiac sodium channel Nav1.5

11.35 Klaus Benndorf – University Hospital Jena  
The conductance of single homomeric and heteromeric HCN pacemaker channels at sub-picosiemens resolution

12.00 Erik Lindahl – Stockholm University  
Structure and neurosteroid modulation of GABA

12.25 William Brackenbury – University of York  
Blocking channels to metastasis: targeting Nav1.5 in breast cancer

12.50 [Lunch, Exhibits and Posters](#)

---

### Session 3 – Chair: Sara Liin – Linköping University

---

#### SciLifeLab and the Chemical Biology Consortium (CBCS)

14.00 Fredrik Elinder – Linköping University, SciLifeLab Linköping  
Introduction to ScilifeLab

14.15 Nina Ottosson – Linköping University, CBCS  
The CBCS Electrophysiology node at Linköping University

14.30 Caitlyn Norman – Linköping University  
In vitro GABAA receptor activity of novel benzodiazepines

#### Young Investigators – speakers selected from poster abstracts

14.45 Kevin Cunningham – University of Westminster  
Development of novel HCN2 ion channel inhibitors as a treatment for neuropathic pain

15.00 Stephanie Heusser – University of Copenhagen  
Understanding Desensitization Mechanisms in Acid-Sensing Ion Channels Through Protein Modifications

15.15 Christian Sattler – University Hospital Jena  
Hearing loss mutations in human P2X2 receptor channels

15.30 Tibor Szanto – University of Debrecen  
Novel loss-of-function mutations in Kv7.2, and their possible involvement in epilepsy

15.45 [Tea/Coffee, Exhibits and Posters](#)

---

### Session 4 – Chair: Nina Ottosson - Linköping University

---

16.30 Kim Boddum – Sophion Bioscience  
Taming Toxins: Exploring the Interactions Between Antibodies, Snake Toxins, and Ion Channels

16.55 Peter McNaughton – King's College London  
The role of HCN2 ion channels in tinnitus and opioid addiction

17.20 Anna Moroni – University of Milan  
Isolation and functional validation of ion-channel subtype specific nanobodies

17.45 Wrap Up – Duncan Jarman, Sophion Biosciences A/S

19.00 Dinner at Stångs Magasin

## DAY 2. Thursday, 12<sup>th</sup> September, 2024

08.00 Registration – Tea/Coffee

08.25 Welcome Remarks – Nina Ottosson – Linköping University

---

### Session 5 – Chair: Peter Larsson – Linköping University

---

08.30 Antonios Pantazis – Linköping University

Electrical and G-protein regulation of presynaptic calcium channels

08.55 Bo Hjort Bentzen – University of Copenhagen

Calcium activated K<sup>+</sup> channels in pulmonary veins

09.20 Marta Campiglio – Innsbruck University

Dissecting the functions of multiple STAC3 interactions in skeletal muscle excitation-contraction coupling

09.45 Michael Pusch – Institute of Biophysics, CNR, Genoa

Endolysosomal chloride / proton antiporters in human diseases – a biophysical perspective

10.10 [Tea/Coffee, Exhibits and Posters](#)

---

### Session 6 – Chair: Antonios Pantazis - Linköping University

---

10.55 Sara Liin – Linköping University

Studying drug selectivity mechanisms in Kv7 channels

11.20 Timothy Lynagh – University of Bergen

Starfish still get excited about GABA, but vertebrates are too desensitized

11.45 Thomas Voets – KU Leuven

TRPM3 – a new target for the treatment of neurological disorders

12.10 Alicia Lundby – University of Copenhagen

Identifying protein targets to mitigate pathological remodeling in hearts by proteomics investigations

12.35 Wrap Up – Fredrik Elinder – Linköping University, SciLifeLab Linköping

12.40 Lunch