

## Molecular Approaches to Membrane Transport, Sigtuna 13-15/9 2012

Thursday, September 13, 2012

15.30-16.00 Coffee

16.00-16.15 Welcome

### *Transporters involved in pH regulation*

16.15-17.00 **Jeppe Prætorius - Ekspression and function of the sodium bicarbonate transporters NBCe2 and Ncbe**

17.00-17.30 Mohamed Helmy (University of Helsinki) - H<sup>+</sup> transport across the blood-brain barrier after neonatal asphyxia causes brain alkalosis and seizures

17.30-18.00 Malin Stridh (University of Copenhagen) - Carbonic anhydrase II (CAII) facilitates lactate transport through Monocarboxylate transporter I (MCT1) via a non-catalytic mechanism

18.00-20.00 Dinner

Friday, September 14, 2012

7.30-8.30 Breakfast



### ***Structural recognition of ligands in membrane proteins***

- 8.30-9.00 Jakob Andersen (University of Copenhagen) - Selective recognition of antidepressant drugs in SLC6 neurotransmitter transporters
- 9.00-9.25 Christian B. Billesbølle - Fluorometric Characterization of a Bacterial Neurotransmitter Transporter Homologue
- 9.25-9.50 Christian Brix Folsted Andersen - Structural Studies of Hemoglobin Scavenging
- 9.50-10.20 Coffee

### ***Cx43 gapjunction and hemichannel***

- 10.20-10.50 Morten Schak Nielsen (University of Copenhagen) - Phosphorylation regulates the calcium sensitivity of Cx43 gap junctions
- 10.50-11.35 **Bruce Ransom (University of Washington Medical Center) - Hemichannels in astrocytes: What we think we know**
- 11.35-12.00 Daniel Bloch Hansen (University of Copenhagen) - Cx43 hemichannels; for your dyes only?
- 12.00-13.30 Lunch

### ***ATPases***

- 13.30-14.15 **Thomas Günther-Pomorski - Tracking down lipid flippases and their biological functions**
- 14.15-14.40 Anna Lindeløv Vestergaard (University of Aarhus) - Phospholipid flippase ATP8A2, a cousin of the Na<sup>+</sup>, K<sup>+</sup>-ATPase: Key Transmembrane Residues identified by mutagenesis studies
- 14.40-15.05 Henning Tidow (University of Aarhus) - A bimodular mechanism of calcium control in eukaryotes
- 15.05-15.30 Oleg Sitsel (University of Aarhus) - Ion release pathway of a copper-transporting P-type ATPase
- 15.30-16.00 Coffee

16.00-18.00 **Poster session & Bar**

18.00-20.00 Dinner

## **Saturday, September 15, 2012**

7.30-8.30 Breakfast

### ***Ion channels***

8.30-9.00 Fredrik Elinder (Linköping University) - A complete voltage-sensor cycle in a K channel

9.00-9.30 **TBA**

9.30-9.55 Sophie Schwaiger (Stockholm University) - In-silico studies on the activation and modulation of voltage sensor domains

9.55-10.25 Coffee

10.25-11.10 **Frances Ashcroft (Oxford University) -  $K_{ATP}$  channels and neonatal diabetes**

11.10-11.30 Camilla Stampe Jensen (University of Copenhagen) - Distinct Vesicular Trafficking of Kv Channels addressed by Live-cell Imaging

11.30-11.50 Vladimir Matchkov (Aarhus University) -  $Ca^{2+}$ -activated  $Cl^-$  conductance in vascular smooth muscles

11.50-12.00 Discussion

12.00-13.30 Lunch

