

ABC Workshop 2010 Program

September 14th 2010

9:00 –10:00 Registration

10:00 Welcome Michael Dean

10:10-12:00 **Session 1** P-Glycoprotein in Disease and Drug Resistance

Chair- Saibal Dey

10:10 Talk 1 Saibal Dey
Allosteric modulation of P-glycoprotein.

10:40 Talk 2 Shinobu Ohnuma
Characterization of the degradation system of cell surface P-glycoprotein (ABCB1) in HCT-15 cells

11:00 Talk 3 Anika MS Hartz
Blood-brain barrier P-glycoprotein: a new target for Alzheimer's disease?

11:20 Talk 4 Matthew D. Hall
Complex -interactions between the ABCB1 substrate [¹¹C]*N-desmethyl-Loperamide* and the inhibitor tariquidar are mediated by lysosomes

11:40 Talk 5 Dana Emmert
Modulating P-glycoprotein to Enhance the Brain Penetration of CNS Therapies for Mental and Nervous System Disorders

12-2:00 Lunch Break and Posters

2:00-4:00 **Session 2** ABC transporters in disease and drug resistance

Chairs: Michael Dean and Andras Varadi

2:10 Talk 6 Olivier Le Saux
ABCC6: Structural and functional consequences of disease-causing mutations.

2:40 Talk 7 Karobi Moitra
Exploring novel candidate genes, miRNA and ABC transporters for therapeutic intervention in etoposide resistance.

- 3:00** **Talk 8** **Kamlesh Sodani**
Analogues of OSI-930, a novel dual c-Kit and KDR tyrosine kinase inhibitor, reverse ABCG2-mediated multidrug resistance
- 3:20** **Talk 9** **Yuanyuan Zhang**
Absence of Bsep Recapitulates Human PFIC2
- 3:40** **Talk 10** **Hossein Ardehali**
Mitochondrial ATP-binding cassette protein-1 plays a role in mitochondrial iron homeostasis and cytosolic iron-sulphur protein maturation and protects against doxorubicin-induced cardiomyopathy
- 4:00-6:00** **Break and Posters**
- 6:00** **Dinner**

September 15th 2010

9:30-11:40 **Session 3** **Evolution, Disease and Regulation and of ABC Transporters**
Chair- John Scheutz

- 9:40** **Talk 11** **John Scheutz**
ABC transporter knockouts: role in deciphering physiology and pathophysiology
- 10:00** **Talk 12** **John Lynch**
ABCB6 is regulated by hypoxia and promotes hypoxic survival by interacting with pyruvate dehydrogenase
- 10:20** **Talk 13** **Zahida Parveen**
Symmetry and solute translocation of P-glycoprotein
- 10:40** **Talk 14** **Gergely Gyimesi**
Computational study of the long scale dynamics of ABC proteins
- 11:00** **Talk 15** **Amit Tiwari**
PDE inhibitors as new MDR modulators
- 11:20** **Talk 16** **Mugdha Sukhthankar**
The Role of ABC transporter, ABCC4/ MRP4 in hematopoietic progenitor differentiation

11:40-1:30 **Lunch and posters**

Conference ends.