

# 8<sup>th</sup> North American ABC Workshop 2011 Program

September 28<sup>th</sup> 2011

9:00 –10:00 Registration

10:00 Welcome Michael Dean

10:10-12:00 Session 1 P-Glycoprotein in Disease and Drug Resistance  
Chairs- Suneet Shukla and Karobi Moitra

10:10 Talk 1 Suneet Shukla  
Use of Baculovirus BacMam vectors for expression of ABC drug transporters in mammalian cells

10:40 Talk 2 Eduardo E. Chufán  
Molecular mechanism of the polyspecificity of P-glycoprotein (ABCB1)

**BREAK**

11:20 Talk 3 Atish Patel  
PD173074, a selective FGFR1 and FGFR3 inhibitor reverses ABCB1- mediated multidrug drug resistance.

11:40 Talk 4 Jun-Jiang Chen  
B2B1, one of 23-hydroxybetulinic acid analogs, can modulate ABC transporter mediated MDR

12:00-2:00 Group photograph, Lunch Break and Posters

2:00-4:40 Session 2 Role of ABC transporters in disease and drug efflux

Chair: John Scheutz

2:10 Talk 5 John Scheutz  
*Abcb11/Bsep* Deficiency in Mice Induces Cholestasis and Impairs Fatty Acid Oxidation

2:40 Talk 6 John Lynch  
Development of a technique to measure *Abcb6* dependent mitochondrial coproporphyrin transport.

- 3:00      **Talk 7    J.P. Gillet**  
                  **Functional studies on ABCB5: a pleiotropic phenotype in knock-out mice of this multidrug transporter**
- BREAK**
- 3:40      **Talk 8    T. Gökirmak**  
                  **Distant relatives with familiar habits: Activity and localization of sea urchin multidrug efflux transporters**
- 4:00      **Talk 9    Agnes Basseville**  
                  **Histone deacetylase inhibitors mediate ABCG2 Q141K variant rescue by modulating transcription and trafficking.**
- 4:20      **Talk 10   Divya Rao**  
                  **A combination of low doses of curcumin and gramicidin selectively kills cancer cells that express multidrug resistance-linked ABCG2 transporter**
- 4:40-6:00    **Break and Posters**
- 6:00 – 8:00   **Dinner at Danielle’s Restaurant**

**September 29<sup>th</sup> 2011**

- 9:30-12:20    **Session 3    The ABCC and ABCB family of transporters**  
    **Chairs- Andras Varadi & Sharon Terry**
- 9:40      **Talk 11    Andras Varadi**  
                  ***In vivo* rescue of human ABCC6 disease-causing mutants in mouse liver**
- 10:00      **Talk 12    Sharon Terry**  
                  **The human face of ABCC6**
- 10:20      **Talk 13    Koen van de Wetering**  
                  **Transportomics: screening for substrates of ABC transporters in body fluids using vesicular transport assays**
- BREAK**
- 11:00      **Talk 14    Satish Cheepala**  
                  **Cytoplasmic Loop3 is Critical for Expression, Function, and**

## **Localization of Human and Zebrafish ABCC4/Abcc4**

- 11:20**      **Talk 15**    **Yueli Sun**  
**XR9576 (tariquidar) is a potent reversal agent for MRP7 (ABCC10)-mediated multidrug resistance**
- 11:40**      **Talk 16**    **Hossein Ardehali**  
**Characterization of ABCB8 as a mitochondrial iron exporter**
- 12:00**      **Talk 17**    **Gergely Szakacs**  
**Expression of ABCB6 in erythroid cells**
- 12:20-1:30**    **Lunch and posters**
- Conference ends.**