



Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin



Workshop on Drug Transporters in the Lungs Trinity College Dublin

22-23 September 2016

Wednesday, September 21

Arrival and Welcome Reception (location TBC)

Thursday, September 22

08.30 - 08.45 Registration

08.45 - 09.00 Carsten Ehrhardt (TCD) - Opening Remarks

Session 1: Model systems for drug transporter studies in the lungs

Rapporteurs and Chairs TBC

09.00 - 09.30 Tetsuya Terasaki (Tohoku University) - Human drug transporter protein expression in lung: Impact of quantitative targeted absolute proteomics (QTAP) for drug development in pulmonary disease

09.30 - 10.00 Carsten Ehrhardt (TCD) – Cell culture models of the air-blood barrier

10.00 - 10.30 Markus Fridén (AstraZeneca) – Precision-cut lung slices for profiling of inhaled compounds

10.30 - 11.00 Coffee break

11.00 - 11.30	Ben Forbes (Kings College London) – Isolated and perfused lung models
11.30 - 12.00	NN – Animal models of lung drug disposition
12.00 - 12.30	Per Bäckman (Mylan) – PBPK modelling in preclinical pulmonary drug development
12.30 - 13.00	Wrap-up of session 1
13.00 - 14.00	Lunch break

Session 2: Drug transporter effects on pulmonary PK – case studies

Rapporteurs and Chairs TBC

14.00 - 14.30	Mark Gumbleton (Cardiff University) - P-gp in the lungs
14.30 - 15.00	Carsten Ehrhardt (TCD) – Interaction of organic cation transporters with bronchodilators <i>in vitro</i> , <i>ex vivo</i> and <i>in vivo</i>
15.00 - 15.30	Mikihisa Takano (Hiroshima University) - Functional expression of PEPT2 and its regulation in alveolar epithelial cells
15:30 - 16:00	Ken-ichi Hosoya (University of Toyama) - Implications of the carrier-mediated transport of nicotine in lung and other tissues
16.00 - 16.30	William Couet (Université de Poitiers) - Pulmonary transporters in the drug disposition of antibiotics
16.30 - 17.00	Wrap-up of session 2
17.00 - 19.00	Dublin City Tour (incl. visit of the Teeling distillery)
19.00 - 22.30	Dinner at “The Merry Ploughboy”

Friday, September 23

Session 3: Transporters as drug targets

Rapporteurs and Chairs TBC

09.00 - 09.30	Yukio Kato (Kanazawa University) - Organic cation transporter OCTN1 as possible target for lung pathology
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09.30 - 10.00	Takeo Nakanishi (Kanazawa University) – Pathophysiological role of prostaglandin transporter OATP2A1/SLCO2A1 in pulmonary fibrosis
10.00 - 10.30	Saye Khoo (TBC, University of Liverpool) – Drug transporters in pulmonary immune cells
10.30 - 11.00	Wrap-up of session 3
11.00 - 11.30	Coffee break
11.30 - 12.00	NN (TR&I) – Funding opportunities for multinational consortia
12.00 - 13.00	Plenum discussion
13.00 - 14.00	Lunch break
14.00 - 17.00	Lab session on uptake and transport studies in cell cultures
19.00 - 22.30	Dinner