8th SYMPOSIUM ON PHARMACEUTICAL PROFILING IN DRUG DISCOVERY AND DEVELOPMENT

Thursday, January 25, 2018,
The Humanities Theatre, English Park Campus, Uppsala

Uppsala University’s Department of Pharmacy hosts the 8th Pharmaceutical Profiling meeting, focusing on omics, predictive pharmacokinetics and new advances in drug delivery and discovery.

Confirmed keynote speakers are:

Dr Friedrich Reinhard (Science & Technology Project Manager at Cellzome, a GSK company), who will discuss cutting-edge tools for target identification and target engagement using chemoproteomics and thermal protein profiling;

Dr Cecilia Lindskog (Director of the Human tissue Protein Atlas, Uppsala University), who will present the Pathology Atlas, the association of all human genes with patient survival, and other recent milestones and high-profile findings in the Human Protein Atlas project;

and Prof Chris Porter (Director of Monash Institute of Pharmaceutical Sciences in Melbourne), who performs research in the interface of pharmaceutics, chemistry and biology. He will present on strategies to target drug delivery to the lymphatic system and endosomes.

The meeting is free of charge.

Very welcome!
Per Artursson, Christel Bergström, Pär Matsson and Pawel Baranczewski
Drug Delivery Group, Department of Pharmacy, Uppsala University.

Registration for meeting to be submitted before January 15, 2018 (acceptance on a first come first served basis). Abstracts to be submitted latest January 6, 2018.
For registration and abstract submission use pharmprofiling@farmaci.uu.se.
State ‘registration’ and ‘abstract’ in the respective subject heading.

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8.00  Registration
8.40  Welcome: Prof Per Artursson and Assoc Prof Christel Bergström

Session: New technologies in drug discovery. Part I
Chair: Assoc Prof Christel Bergström, Uppsala University, Sweden

8.45  Lipid conjugates for enhanced drug exposure and activity.
Honorary Doctor Lecture: Prof Christopher Porter, Monash University, Australia

9.25  Mesoporous magnesium carbonate as drug delivery carrier.
Prof Ken Welch, Uppsala University, Sweden

9.45  Role of environment-dependent molecular properties in cellular drug permeability.
Assoc Prof Pär Matsson, Uppsala University, Sweden

10.05  Coffee break and Poster session

Session: New technologies in drug discovery. Part II
Chair: Prof Per Artursson, Uppsala University, Sweden

10.40  Chemoproteomics and thermal protein profiling as tools for target identification and target engagement.
Keynote Lecture: Dr Friedrich Reinhard, Cellzome, a GSK company, Germany

11.20  The need for ADME/PK studies in academic drug discovery.
Assoc Prof Kristian Sandberg, Platform Director SciLifeLab Drug Discovery and Development, Uppsala University, Sweden

11.40  New generation antimicrobials for the treatment of Pseudomonas Aeruginosa.
Dr Tomás Sou, Uppsala University, Sweden

12.00  Lunch and poster session

Session: Omics and predictive pharmacokinetics. Part I
Chair: Dr Paweł Baranczewski, Uppsala University, Sweden

Keynote Lecture: Dr Cecilia Lindskog, Department of Immunology, Genetics and Pathology, Uppsala University, Sweden

Prof Margareta Hammarlund-Udenaes, Uppsala University, Sweden

14.40  EMA’s Perspective on Application of PBPK Modeling in Regulatory Decision.
Dr Anna Nordmark, Medical Products Agency (MPA), Uppsala, Sweden

15:00  Coffee break

Session: Omics and predictive pharmacokinetics. Part II
Chair: Assoc Prof Pär Matsson, Uppsala University, Sweden

15.30  Opportunities and challenges of mass spectrometry-based proteomics of drug transport and metabolizing enzymes.
Prof Jacek Wiśniewski, Max Planck Institute of Biochemistry, Germany

16.00  Intracellular drug concentrations for improved predictions of drug-drug interactions.
Dr Anne Filppula, University of Helsinki, Finland

16:20  Intracellular drug bioavailability: impact of neutral lipids and phospholipids.
Andrea Treyer, Uppsala University, Sweden

16.40  Improved tools for drug efflux studies using CRISPR-Cas9.
Dr Maria Karlsgren, Uppsala University, Sweden

17:00  Concluding remarks – Prof Per Artursson
17:15  End of meeting
Symposium objectives

- Bring together scientists and students from diverse disciplines of medicinal chemistry, pharmacology, drug metabolism and pharmaceutical sciences.
- Review case studies of the application of property information in drug discovery.
- Discuss the development of tools for the prediction and measurement of drug-like properties and application in discovery.
- Hear an outstanding ensemble of experts from both industry and academia.
- Present the research programs within the Drug Delivery and Disposition group at the Department of Pharmacy, Uppsala University.

Practical information

Register for the meeting via e-mail to: pharmprofiling@farmaci.uu.se
Write Registration in the subject of the message. Registration is on a first come first served basis.

Travel: Uppsala is situated 30 km north from Stockholm Arlanda airport, which is the international airport in Sweden. Other airports in the area are Stockholm Västerås airport, Stockholm Bromma airport and Stockholm Skavsta airport. From Arlanda train and buses depart every 30 minutes and it takes 20-30 minutes to reach Uppsala depending on which mode of transportation is selected. Västerås, Bromma and Skavsta have longer transportation times to reach Uppsala.

Venue: The meeting takes place at the Humanities Theatre (Humanistiska teatern) at the English Park Campus in Uppsala. From the central station the venue is reached by bus or by a 20 minute walk. Green city buses depart every 10-15th minutes and reach Humanistiska teatern within 10 minutes followed by a 10 minute walk from the bus stop. Buses passing close to Humanistiska teatern are 6 (towards Flogsta, get off at "Universitet") and 11 (towards Gottsunda, get off at "Slottsbacken). Tickets are purchased in advance at the Uppsala central station or by credit card on the bus.

Abstracts for posters are submitted via email to pharmprofiling@farmaci.uu.se by January 6, 2018. Write Abstract in the subject of the message. Abstracts should include the following subtitles and contain a maximum of 300 words: Aim, Methods, Results, Conclusion.