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Drug Optimization &
Pharmaceutical Profiling

SciLifeLab

9th SYMPOSIUM ON PHARMACEUTICAL PROFILING IN DRUG DISCOVERY AND DEVELOPMENT

Thursday, January 31, 2019

The Humanities Theatre, English Park Campus, Uppsala

Uppsala University's Department of Pharmacy hosts the 9th Pharmaceutical Profiling meeting, focusing on **large molecule drugs and their delivery, disposition and modeling.**

Confirmed **keynote speakers**

Prof. Maria Alonso (USC CIMUS Research Institute)
who will talk about nano-formulation approaches for protein delivery.

Prof. David Brayden (UCD Conway Institute)
who will give a talk on enhanced oral delivery of peptide drugs.

Prof. Jean-Christophe Leroux (ETH Zürich)
who will talk about local delivery of macromolecular agents to the gastrointestinal tract.

Prof. Scott Lokey (UC Santa Cruz)
who will discuss design and characterization of cell permeable peptide drugs.

The meeting is **free of charge.**

Registration deadline is January 17, 2019.

We highly encourage abstract submission for the poster session.
Deadline for abstract submission is January 10, 2019.

For registration and abstract submission use pharmprofiling@farmaci.uu.se.
State 'registration' and 'abstract' in the respective subject heading.
Please indicate dietary restrictions in the registration submission.

We hope to see you there!

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



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The Swedish Drug Delivery Forum



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9th SYMPOSIUM ON PHARMACEUTICAL PROFILING IN DRUG DISCOVERY AND DEVELOPMENT

Thursday, January 31, 2019

The Humanities Theatre, English Park Campus, Uppsala

- 8.00 Registration
- 8.25 Welcome: *Prof. Per Artursson and Prof. Christel Bergström*
- Session 1: Drug Delivery Strategies (part I)**
Chair: Prof. Per Artursson, Uppsala University, Sweden
- 8.30 Enhanced oral delivery of peptide drugs
Prof. David Brayden, UCD Conway Institute, Ireland
- 9.10 Enabling novel therapeutic space through design of membrane permeable peptides
Dr. Jerome Hochman, Merck
- 9.30 Amino acids, peptides and proteins as amorphous stabilizers for poorly soluble drugs
Prof. Korbinian Löbmann, University of Copenhagen, Denmark
- 9.50 Drug delivery flash presentations
- 10.05 Coffee break & Poster Session
- Session 2: Drug Delivery Strategies (part II)**
Chair: Prof. Christel Bergström, Uppsala University, Sweden
- 10.35 Local delivery of macromolecular therapeutics/diagnostic agents to the gastrointestinal tract
Prof. Jean-Christophe Leroux (ETH Zürich, Switzerland)
- 11.15 Improving delivery of siRNA therapeutics - overcoming endosomal entrapment
MD. Anders Wittrup, Lund University, Sweden
- 11.35 Colloidal capsules as a functional oral drug delivery system
Prof. Alexandra Teleki (Uppsala University, Sweden)
- 11.50 Swedish Drug Delivery Forum (SDDF)
Prof. Göran Alderborn (Uppsala University, Sweden)
- 12.00 Lunch at Matikum (See map on next page)
- Session 3: Nano-formulations**
Chair: Prof. Pär Matsson, Uppsala University, Sweden
- 13.30 Nano-formulation approaches for protein delivery
Prof. Maria Alonso, USC CIMUS Research Institute, Spain
- 14.10 Interaction of core-shell nanoparticles with proteins and membranes - application to magnetically controlled vesicles
Prof. Erik Reimhult, University of Natural Resources and Life Sciences, Austria
- 14.40 Drug delivery flash presentations
- 15.00 Coffee break & Poster Session
- Session 4: Drug discovery of large molecules**
Chair: Dr. Pawel Baranczewski, UDOPP, SciLifeLab DDD, Uppsala University, Sweden
- 15.30 A human whole blood loop model for immune-profiling of monoclonal antibodies
Prof. Sara Mangsbo, Uppsala University, Sweden
- 15.50 In vivo potency revisited – Keep target in sight
Prof. Johan Gabrielsson, Swedish University of Agricultural Sciences, Sweden
- 16.10 Challenges, opportunities and requirements of large molecule bioanalysis
Dr. Aljona Saleh, UDOPP, SciLifeLab DDD, Uppsala University, Sweden
- 16.30 Structural and phenotypic diversity in libraries inspired by cell permeable cyclic peptide natural products
Prof. Scott Lokey, UC Santa Cruz, U.S. (live online video presentation)
- 17.10 Concluding remarks – *Prof. Per Artursson*
- 17.20 End of meeting

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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 10, 2019**. 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.

