



Workshop: Early Stage Drug Discovery in Finland and in Oulu

Time	September 13-14, 2016
Place	University of Oulu, Medical Campus: Lecture Hall P117 (Pathology, Aapistie 5A)
Main organizer	Biocenter Oulu Doctoral Programme, University of Oulu
Partners	University of Oulu Graduate School, Medical Research Center Oulu Doctoral Programme, FinPharmaNet, and National Doctoral Programme in Informational and Structural Biology
Contents	2-day intensive course. Lectures, discussions, pre-course readings (1 review article/session topic). A remote connection will be available (link will be distributed to registered participants). Optional poster presentation.
Credits	1.5 ECTS for the full course including poster presentation; 1.0 ECTS without poster
Aims	Improved understanding of the process of early drug development; networking within the organizing networks and between partners, as well as between researchers and industry to enhance academic collaboration and working life connections
Target audience	Doctoral students and researchers interested in drug discovery all over Finland and in the Nordic Network of Biological Informatics
Contact persons	Responsible person: Lari Lehtiö, Academy Research Fellow, Biocenter Oulu and Faculty of Biochemistry and Molecular Medicine, University of Oulu, and Ritva Saastamoinen, coordinator, Biocenter Oulu Doctoral Programme, University of Oulu (email: firstname.lastname@oulu.fi)
Registration	Deadline August 31, 2016. Online registration at https://www.webpolsurveys.com/S/E5CE01AAFE85018A.par . Registered participants will receive a confirmation and further information during the first week of September.
www page	http://www.oulu.fi/biocenter/drug-2016

PROGRAMME

Day 1: Sept 13

9:00 - 9:30	<i>Coffee and posters</i>
9:30 - 9:45	Opening words Lari Lehtiö , Biocenter Oulu and Faculty of Biochemistry and Molecular Medicine, University of Oulu
SESSION 1	BIOASSAYS FOR SCREENING COMPOUNDS: FINDING THE HIT
9:45 - 10:30	“Assay Development: What Do You Really Need to Take into Account?” Krister Wennerberg , FIMM, University of Helsinki
10:30 - 11:15	“Screening at the High Throughput Biomedicine Unit” Jani Saarela , FIMM, University of Helsinki
11:15 - 12:00	“Looking for the Hit Molecules that will Make It to the Market – <i>In Vitro</i> Perspectives of Industrial Drug Discovery” Mervi Vasänge , Orion Oyj, Turku
12:00 - 12:15	Discussion
12:15 - 13:45	<i>Lunch and posters</i>

SESSION 2 COMPUTATIONAL DRUG DISCOVERY: SCREENING AND DESIGN

- 13:45 - 14:30 “Molecular Docking and Other Virtual Screening Methods – Beyond Fancy Images”
Tuomo Laitinen, University of Eastern Finland, Kuopio
- 14:30 - 15:15 “Rational Discovery of Small Molecule Modulators for Protein-Protein Interactions - Myth, Legend, or Fairytale?”
Olli Pentikäinen, Nanoscience Center, University of Jyväskylä
- 15:15 - 15:45 *Coffee and posters*
- 15:45 - 16:30 “Computer-Aided Drug Design at Orion Pharma - Building Bridges Between Chemistry, Biology and People”
Julius Sipilä, Orion Oyj, Espoo
- 16:30 - 17:15 “Resources for Academic Drug Discovery Offered by CSC”
Kimmo Mattila, CSC, Espoo
- 17:15 - 17:30 Discussion
- 19:00 - *Dinner, discussion and networking with the speakers*
(Note: registration required, at your own cost, place TBA)

Day 2: Sept 14

- 8:30 - 8:35 Opening words
Lari Lehtiö, Biocenter Oulu and Faculty of Biochemistry and Molecular Medicine, University of Oulu

SESSION 3 SYNTHETIC MEDICINAL CHEMISTRY

- 8:35 - 9:20 “Designing of Compound Synthesis and Building up Molecular Libraries”
Juhani Huuskonen, Department of Chemistry, University of Jyväskylä
- 9:20 - 9:45 *Coffee and posters*
- 9:45 - 10:30 “From Hit Structure to Lead Molecule – Structure-Activity Optimization”
Leena Keurulainen, Faculty of Pharmacy, University of Helsinki
- 10:30 - 11:15 “Production of Pharmaceuticals in Larger Scale for (pre)Clinical Studies”
Heikki Hassila, Pharmatory Oy, Oulu
- 11:15 - 11:30 Discussion
- 11:30 - 13:00 *Lunch and posters*

SESSION 4: PRECLINICAL PHARMACOKINETICS

- 13:00 - 13:45 “The Role of ADME in Drug Development”
Timo Korjamo, Orion Oyj, Espoo
- 13:45 – 14:00 *Coffee*
- 14:00 - 14:45 “Experimental Methods to Study ADME and Pharmacokinetics”
Janne Mannila, Admescope Oy, Oulu
- 14:45 - 15:30 “Computational ADME”
Henri Xhaard, Centre for Drug Research, Faculty of Pharmacy, University of Helsinki
- 15:30 – 15:45 Discussion and closing of the workshop
Lari Lehtiö, Biocenter Oulu and Faculty of Biochemistry and Molecular Medicine, University of Oulu

Please follow programme updates and check the latest version at the course web site:
<http://www oulu.fi/biocenter/drug-2016>.

Welcome!

(Update on August 29, 2016)