

## Drug Research Academy

### SUMMER SCHOOL 2019

#### Oral sessions (3rd year PhD students)

Letter	Name	Department	Time slot	Title	Principal supervisor
<b>Stream 1 before lunch</b>					
A	Jacob Bannow	Pharmacy	11:00 - 11:20	Improving the Drug Load and in vitro Performance of Supersaturated Self-Nanoemulsifying Drug Delivery Systems (Super-SNEDDS) using Polymeric Precipitation Inhibitors	Thomas Rades
B	Jacob Jørgensen	Pharmacy	11:20 - 11:40	Microcontainers for Oral Insulin Delivery	Anette Müllertz
C	Maximilian Karl	Pharmacy	11:40 - 12:00	Modulated Micromechanical Thermal Analysis	Thomas Rades
D	Pernille Kjærgaard Qvist	Pharmacy	12:00 - 12:20	Continuous manufacturing platform for manufacturing of creams and other semisolids	Jukka Rantanen
<b>Stream 1 after lunch</b>					
E	Peter Ouma Okeyo	Pharmacy	15:10 - 15:30	Thermomicromechanical understanding of hydrate-anhydrate transformations	Jukka Rantanen
F	Bruno Luigi Carlo Borro	Pharmacy	15:30 - 15:50	Microgels as delivery systems of antimicrobial peptides	Martin Malmsten
G	Sara Malekkhaiat Häffner	Pharmacy	15:50 - 16:10	TiO <sub>2</sub> /UV-induced oxidative stress on polyunsaturated lipid bilayers is modulated by cholesterol and head group composition	Martin Malmsten
H	Jianfei Huang	Pharmacy	16:10 - 16:30	Graphene Oxide in Polyelectrolyte Buccal Films for Delivery of Clotrimazole	Huiling Mu
I	Mai Bay Stie	Pharmacy	16:30 - 16:50	Electrospun chitosan/polyethylene oxide nanofibers for sublingual drug delivery	Hanne Mørck Nielsen
<b>Stream 2 before lunch</b>					
J	Andreas Redsted	Pharmacy	11:00 - 11:20	Structural Mass Spectrometry (HDX-MS) to study Membrane Antigens for improved vaccine design	Kasper Dyrberg Rand
K	Mathias Møllebæk	Pharmacy	11:20 - 11:40	Post-marketing risk communication: How do Danish GPs read letters from regulators and industry about emergent risks?	Susanne Kaae
L	Gerard Comamala	Pharmacy	11:40 - 12:00	HDX-MS with improved electrochemical reduction cell allows comprehensive epitope mapping of a therapeutic antibody to the cysteine-knot containing Vascular Endothelial Growth Factor	Kasper Rand

M	Jens Fogh	Pharmacy	12:00 - 12:20	Development of a quantification method for intact phosphorylated alpha-synuclein in mouse brain	Kasper Rand
<b>Stream 2 after lunch</b>					
N	Rasmus Svejdal	Pharmacy	15:10 - 15:30	Thiol-ene microfluidic chip for performing hydrogen/deuterium exchange of proteins at sub-second timescales	Kasper D. Rand
O	Johan Weisser	Pharmacy	15:30 - 15:50	Analysis of small molecules using liquid chromatography tandem mass spectrometry. Method development, validation and criticism	Claus Cornett
P	Junwei Wang	Pharmacy	15:50 - 16:10	Development of inhaled dry powder formulations composed of tobramycin and aztreonam	Mingshi Yang
Q	Monica Agnoletti	Pharmacy	16:10 - 16:30	Levofloxacin-Loaded PLGA Microspheres Prepared with Microfluidics for the Treatment of Pulmonary Infections via Passive Lung Targeting	Urs Häfeli
R	Tullio Vito Francesco Esposito	Pharmacy	16:30 - 16:50	Hyperbranched Polyglycerol-Based Drugs and Drug Delivery Systems	Urs Häfeli
<b>Stream 3 before lunch</b>					
S	Christin Kossmann	Drug Design and Pharmacology	11:00 - 11:20	D-peptide inhibitors of PSD-95 through mirror-image phage display	Kristian Strømgaard
T	Fabao Zhao	Drug Design and Pharmacology	11:20 - 11:40	Development of subtype selective NMDA receptor agonists	Rasmus Prætorius Clausen
U	Maria Madsen	Drug Design and Pharmacology	11:40 - 12:00	Exploring the effect of phosphorylations on protein-protein interactions of PSD-95 using genetically encoded phosphorylated amino acids	Kristian Strømgaard
V	Nicki Frederiksen	Drug Design and Pharmacology	12:00 - 12:20	Lysine-based $\alpha$ -Peptide/ $\alpha$ -Peptoid Hybrid Peptidomimetics: Influence of Hydrophobicity and Relative Side-chain Length on Antimicrobial Activity and Cytotoxicity	Henrik Franzyk
<b>Stream 3 after lunch</b>					
W	Sana Ma	Drug Design and Pharmacology	15:10 - 15:30	Regulation of syntenin via phosphorylation in cancer progression pathways	Kristian Strømgaard
X	Vita Sereikaite	Drug Design and Pharmacology	15:30 - 15:50	Targeting the GABAB receptor complex: Development of inhibitors targeting the KCTD/GABAB receptor protein-protein interaction	Kristian Strømgaard

Y	Syariful Anam	Drug Design and Pharmacology	15:50 - 16:10	Secondary Metabolites from The Fungal Endophyte <i>Arthrinium arundinis</i> – OSMAC Approach combined with High-Resolution Antibacterial Profiles and HPLC-HRMS-NMR	Dan Stærk
Z	Michael Bæk	Drug Design and Pharmacology	16:10 - 16:30	Affinity-Based Probes to Investigate Post-Translational Modifications	Christian Adam Olsen
AA	Nikolaj Riis Christensen	Drug Design and Pharmacology	16:30 - 16:50	High-affinity bivalent PICK1 PDZ domain inhibitors stabilizes a non-native dimer-of-dimers complex and alleviates neuropathic pain	Kristian Strømgaard
<b>Stream 4 before lunch</b>					
BB	Nawid Madjroh	Drug Design and Pharmacology	11:00 - 11:20	Pharmacological characterization of the novel Zinc-activated channel	Anders A. Jensen
CC	Christian Munk	Drug Design and Pharmacology	11:20 - 11:40	Online resource for GPCR structure-function analysis	David Gloriam
DD	Abd. Malik	Drug Design and Pharmacology	11:40 - 12:00	High-resolution $\alpha$ -Glucosidase Inhibitory Profiling for Isolation and Characterization of Novel Inhibitors from an Endophytic Fungus <i>Penicillium</i> sp.	Dan Stærk
EE	Kirstine Louise Bendtsen	Drug Design and Pharmacology	12:00 - 12:20	Structural investigations of lymphocyte-activation gene 3 - an a-synuclein interaction partner	Michael Gajhede
<b>Stream 4 after lunch</b>					
FF	Anders Wiuf	Biomedical Sciences	15:10 - 15:30	Unzipping the ZIPs – Structural and functional characterization of a zinc transporter	Pontus Gourdon
GG	Morten Baltzer Houliind	Drug Design and Pharmacology	15:30 - 15:50	Elevated suPAR is an independent risk marker for incident kidney disease in acute medical patients	Ove Andersen
HH	Yongquan Li	Pharmacy	15:50 - 16:10	Transformation of nanoparticles into tablets: re-dispersion and dissolution rate	Jukka Rantanen
II	Maria Rafiq	Drug Design and Pharmacology	16:10 - 16:30	Expression, purification and characterization of human membrane transporter hPepT1	Osman Mirza

**Chairs:****Stream 1**

Korbinian Löbmann

Andrea Heinz

Huiling Mu

**Stream 2**

Bente Gammelgaard

Jörg P. Kutter

Susanne Kaae

**Stream 3**

Kristian Strømgaard

Rasmus P. Clausen

Christian Adam Olsen

**Stream 4**

Lasse K. Bak

Laura McNair

Stephan Pless