

PhD course

Drug Delivery

PROGRAM

25-29 May 2020

**Department of Pharmacy, Faculty of Health and Medical Sciences
(SUND), University of Copenhagen, Denmark
Online course in Zoom:**

Join Zoom Meeting:

<https://us04web.zoom.us/j/72905854221?pwd=MUUhKYtIkTVZiUEFkN1VGTXFVRHNuZz09>

Meeting ID: 729 0585 4221, Password: 0SWs6S

Monday May 25:

- 9:00-10:00 **Welcome and introduction of participants**
Camilla Foged (SUND)
- 10:00-10:45 **Introduction – “what is drug delivery?”**
Students / Camilla Foged (SUND) / Aneesh Thakur (SUND)
- 10:45-11:00 *Break*
- 11:00-12:00 **Pulmonary delivery**
Mingshi Yang (SUND)
- 12:00-13:00 *Lunch*
- 13:00-15:45 **The gastro-intestinal tract - dosage form performance**
Clive Wilson (University of Strathclyde)
- 15:45-17.00 **Group work I – planning and search for literature**
Students

Tuesday May 26:

- 9:00-10:00 **The blood brain barrier**
Birger Brodin (SUND)
- 10:00-11:00 **Delivery systems for peptides and other drugs in combatting infection
and inflammation**
Martin Malmsten (SUND)
- 11:00-12:00 **Peptide and protein delivery I**
Hanne Mørck Nielsen (SUND)
- 12:00-13:00 *Lunch*
- 13:00-15:00 **Group work II**
Students
- 15:00-16:00 **Peptide and protein delivery II**
Marco van de Weert (SUND)
- 16:00-17:00 **Oral absorption of peptides and proteins**
Stephen Buckley, Novo Nordisk A/S

Wednesday May 27:

9:00-12:00 **Nanoparticulate systems and selected delivery purposes**
Gert Storm, Utrecht University

12:00-13:00 *Lunch*

13:00-14:30 **Delivery Strategies for Molecular Therapeutics**
Ken Howard (Aarhus University)

14:30-14:45 *Break*

14:45-16:00 **Group work III**

16:00-17:00 **Imaging Drug Delivery**
Urs Häfeli (SUND)

Thursday May 28:

- 9:00-10:00 **Drug delivery to the skin**
Nina Østergaard Knudsen (Riemann)
- 10:00-11:00 **Group work IV**
Students
- 11:00-12:00 **Methodologies for optimizing the delivery of oligonucleotides**
Camilla Foged (SUND)
- 12:00-12:45 *Lunch*
- 12:45-13:45 **Oral lipid-based formulations and solid state dosage forms I**
Anette Müllertz (SUND)
- 13:45-14:45 **Oral lipid-based formulations and solid state dosage forms II**
Thomas Rades (SUND)
- 14:45-15:00 *Break*
- 15:00-17:00 **Imaging-guided vaccine delivery**
Aneesh Thakur (SUND)

Friday May 29:

- 9:00-10:00 **Metabolic barriers**
Lassina Badolo (Merck)
- 10:00-11:00 **Drug Delivery: An industrial perspective**
René Holm (Janssen)
- 11:00-11:15 *Break*
- 11:15-12:00 **Group work presentations**
Students
- 12:00-13:00 *Lunch*
- 13:00-14:30 **Group work presentations**
Students
- 14:30-15:00 **Evaluation**