

16th EFMC Short Course on Medicinal Chemistry

Programme

Sunday 08/05/2022

17:00 Registration

19:00 Dinner and Get Together

16th EFMC Short Course on Medicinal Chemistry

Programme

Monday 09/05/2022

07:30	Breakfast
08:30	Opening
09:00	General Introduction to GPCRs: Pharma Relevance, Indications, Molecular Pharmacology Prof. Rob LEURS (VRIJE UNIVERSITEIT AMSTERDAM, Amsterdam, The Netherlands)
10:30	Coffee Break
11:00	Structural Biology of GPCRs in the Era of Cryo-EM – Implications for Drug Design and Discovery Dr Moran SHALEV-BENAMI (WEIZMANN INSTITUTE, Rehovot, Israel)
12:30	Lunch
14:00	GPCR Ligands: Molecular Recognition, Kinetics and Allosteric Modulation Prof. Laura HEITMAN (UNIVERSITY OF LEIDEN, Leiden, The Netherlands)
15:30	Coffee Break
16:00	Partial Agonism/Biased Signalling and its Therapeutical Relevance Dr Rob LANE (UNIVERSITY OF NOTTINGHAM, Nottingham, United Kingdom)
17:30	Day End
18:00	Walking tour through Leiden
19:00	Dinner in Leiden

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Tuesday 10/05/2022

07:30 **Breakfast**

08:30 **A General Introduction into GPCRdb & Hands-on with the GPCRdb**
Dr Albert KOOISTRA
(UNIVERSITY OF COPENHAGEN, København, Denmark)

10:30 **Coffee Break**

11:00 **System Biology Approaches to GPCR Targets**
Dr Aurelien RIZK
(INTERAX BIOTECH, Villigen, Switzerland)

12:30 **Lunch**

14:00 **GPCR Ligand Design: Cheminformatics and Modelling**
Dr Chris DE GRAAF
(SOSEI HEPTARES, Cambridge, United Kingdom)

15:30 **Coffee Break**

16:00 **Tutorials and Exercises**
Dr Chris DE GRAAF (SOSEI HEPTARES, Cambridge, United Kingdom)
Dr Albert KOOISTRA (UNIVERSITY OF COPENHAGEN, København, Denmark)

18:30 **Day End**

19:00 **Dinner and Get Together**

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Programme

Wednesday 11/05/2022

- 07:30** **Breakfast**
- 08:30** **Discovery of Cariprazine, A Dopamine D3 Receptor Preferring Third Generation Antipsychotics**
Prof. György KESERU
(HUNGARIAN ACADEMY OF SCIENCES, Budapest, Hungary)
- 09:30** **Discovery of H1/H4 Dual Ligands**
Prof. Iwan DE ESCH
(VU AMSTERDAM, Amsterdam, The Netherlands)
- 10:30** **Coffee break**
- 11:00** **Binding and Modulating GPCRs by Inside/Outside Binding Nanobodies**
Dr Raimond HEUKERS
(QVQ, Utrecht, The Netherlands)
- 12:30** **Wrap up and Lunch**