

16th EFMC Short Course on Medicinal Chemistry

Programme

Sunday May 8, 2022

17:00 Registration

19:00 Dinner and Get Together

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Programme

Monday May 9, 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 May 10, 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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Wednesday May 11, 2022

07:30 **Breakfast**

08:30 **Discovery of Cariprazine, A Dopamine D3 Receptor Preferring Third Generation Antipsychotics**
Prof. Gyorgy KESERU
(HUNGARIAN ACADEMY OF SCIENCES, Budapest, Hungary)

09:30 **Discovery of H1/H4 Dual Ligands**
Prof. Iwan DE ESCH
(VRIJE UNIVERSITEIT 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**