

# 16th EFMC Short Course on Medicinal Chemistry

## Programme

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### Sunday May 17, 2020

17:00 Registration

19:00 Dinner and Get Together

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### Monday May 18, 2020

- 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 Biochemistry of GPCRs**  
Dr Chris DE GRAAF  
(SOSEI HEPTARES, Cambridge, United Kingdom)
- 12:30**      **Lunch**
- 14:00**      **GPCR Ligands: Molecular Recognition, Kinetics and Allosteric Modulation**  
Dr Rob LANE  
(UNIVERSITY OF NOTTINGHAM, Nottingham, United Kingdom)
- 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 19, 2020

- 07:30**      **Breakfast**
- 08:30**      **Tutorial and Exercise on GPCRdb**  
Dr Albert KOOISTRA  
(Radboud UMC Nijmegen, Nijmegen, The Netherlands)
- 11:00**      **Coffee Break**
- 11:30**      **System Biology Approaches to GPCR Targets**  
Dr Maria WALDHOER  
(Interax Biotech, Zürich, 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**      **Tutorial and Exercise**  
Dr Chris DE GRAAF  
(SOSEI Heptares, Cambridge, United Kingdom)
- 18:30**      **Day End**
- 19:00**      **Dinner and Get Together**

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### Wednesday May 20, 2020

**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**      **Case Study: Discovery of H1/H4 Dual Ligands**  
Prof. Iwan DE ESCH  
(VRIJE UNIVERSITEIT AMSTERDAM, Amsterdam, The Netherlands)

**10:30**      **Coffee break**

**12:00**      **Binding and Modulating GPCRs by Inside/Outside Binding Nanobodies**  
Dr Raimond HEUKERS  
(QVQ, Utrecht, The Netherlands)

**13:00**      **Wrap up and Lunch**