

4th BPS Focused Meeting on Cell Signalling University of Leicester, 23 - 24 April 2012

Organizers:

John Challiss, Andrew Tobin, and Gary Willars (University of Leicester)

Programme - Monday 23 April 2012

- 09:00-10:00 Arrival and Registration
- 10:00-10:10 Welcome – The Organizers
- 10:10-10:50 *Use of binding pocket structures to discover pharmacological tools and drug leads for GPCRs*
Thue Schwartz (University of Copenhagen, Denmark)
- 10:50-11:30 *Stabilized receptors to enable structure-based discovery of muscarinic receptor agonists*
Fiona Marshall (Heptares, Welwyn Garden City, UK)

11:30-11:55 Coffee

- 11:55-12:35 *G protein-coupled receptor kinases: molecular mechanism and inhibition*
John Tesmer (University of Michigan, Ann Arbor, USA)
- 12:35-13:15 *Regulation of RGS-RhoGEFs by heterotrimeric G proteins*
Paul Sternweis (University of Texas Southwestern, Dallas, USA)

13:15-14:15 Lunch

- 14:15-14:45 Oral Presentations 1 and 2
- 14:45-15:25 *Local control of cyclic AMP signals*
Manuela Zacco (University of Oxford, UK)

15:25-15:50 Coffee

- 15:50-16:20 Oral Presentations 3 and 4
- 16:20-17:10 *Cell signalling in space and time: from the membrane and back*
Keynote Speaker: John Scott (University of Washington, Seattle, USA)
- 17:10-18:00 Break
- 18:00-20:30 Poster Session
- 20:30 Conference Dinner at John Foster Hall, University of Leicester



Programme - Tuesday 24 April 2012

- 09:30-10:10 *The opportunity and challenge of allosterism in GPCR drug discovery*
Christian Felder (Lilly Research Laboratories, Indianapolis, USA)
- 10:10-10:50 *Exploring allosteric modulation at muscarinic and GLP1 receptors*
Patrick Sexton (Monash University, Melbourne, Australia)
- 10:50-11:05 Oral Presentation 5

11:05-11:30 Coffee

- 11:30-12:10 *δ -opioid receptor (DOP) imaging in vivo: anatomy, dynamics and physiology*
Brigitte Kieffer (Institut de Génétique, Biologie Moléculaire et Cellulaire, Illkirch, France)
- 12:10-12:50 *Biased agonism at the μ -opioid receptor (MOP): measurement and meaning*
Eamonn Kelly (University of Bristol, UK)
- 12:50-13:05 Oral Presentation 6

13:05-14:15 Lunch

- 14:15-14:30 Oral Presentation 7
- 14:30-15:10 *β -arrestin-biased signalling at the H_4 histamine receptor*
Steven Charlton (Novartis Institute for Biomedical Research, Horsham, UK)
- 15:10-16:00 *Evolution of the efficacy concept in pharmacology and how it has changed drug discovery*
Keynote Speaker: Terry Kenakin (University of North Carolina, USA)
- 16:00-16:10 Presentation of Prizes for best Poster and Oral Presentation
- 16:10 Meeting concludes – Departure