

Pharmacology Futures 2018 – celebrating 250 years of pharmacology in Edinburgh

National Museum of Scotland, Edinburgh

Thursday 17 May 2018

8.30-9.00 Registration and refreshments

9.00-9.10 Welcome and introduction
Professor David Webb, Past President, British Pharmacological Society and Professor of Clinical Pharmacology, The University of Edinburgh, UK

SESSION 1

Chair: Professor Sue Fleetwood-Walker, University of Edinburgh, UK

9.10-9.40 How do we make the UK a world leader in drug discovery?
Professor Chas Bountra, University of Oxford, UK

9.40-10.10 Human pluripotent stem cell models for future drug discovery and disease modelling
Professor Christine Mummery, Leiden University Medical Centre, The Netherlands

10.10-10.50 Minding the gap: Linking preclinical studies to the development of novel therapeutics at the National Institute of Mental Health
Professor Susan Amara, National Institutes of Health, USA

10.50-11.20 Refreshment break

SESSION 2

Chair: Professor Mark Evans, University of Edinburgh, UK

11.20-11.50 Drugging transcription: Progress and potential for treating human diseases
Dr Rab Prinjha, GlaxoSmithKline, UK

**ORAL COMMUNICATIONS SESSION:
Future of pharmacology competition, Early career researchers***

- 11.50-12.00 OC001: ALDH1 bio-activates nifuroxazide to eradicate ALDH^{high} melanoma-initiating cells
Sana Sarvi, University of Edinburgh, UK
- 12.00 – 12.10 OC002: Investigating SARMs as novel therapeutics in women
Douglas Gibson, University of Edinburgh, UK
- 12.10 – 12.20 OC003: Non-invasive in human in vivo target engagement biomarkers to strengthen GO/NO-GO decisions
Linde Buntinx, Center for Clinical Pharmacology, UZ Leuven
- 12.20-13.40 Lunch and poster presentation

SESSION 3

Chair: Dr Sally Argyle, University of Edinburgh, UK

- 13.40-14.10 The pharmacology of turning thoughts into local blood flow in the brain
Professor Mark Nelson, University of Vermont, USA

**ORAL COMMUNICATIONS SESSION:
Future of pharmacology competition, PhD student oral communications**

- 14.10-14.20 OC004: Unravelling the effect of metamizole, paracetamol and ibuprofen on TRPA1 using the cinnamaldehyde target engagement biomarker model
Dorien Bamps, Center for Clinical Pharmacology, KU Leuven
- 14.20 – 14.30 OC005: Aldehyde dehydrogenase: 5-nitrofurantoin in vivo gene-drug interactions
Andrea Coates, University of Edinburgh, UK
- 14.30 – 14.40 OC006: Selective Interleukin-6 trans-signalling antagonism with sgp130Fc reduces infarct size in a rat model of myocardial infarction whereas pan-blockade with an anti-IL-6 antibody does not
Marc George, University College London, UK
- 14.40-15.20 The role of biomarkers in translational pharmacology
Dr James Dear, University of Edinburgh, UK
- 15.20-15.50 Refreshment break

SESSION 4

Chair: Professor David Wyllie, University of Edinburgh, UK

15.50-16.20 GPCR allostery: From theory to medicine
Professor Arthur Christopoulos, Monash University, Australia

16.20-16.25 Prize giving: Future of pharmacology competition

Cameron Prize

Chair: Professor Sir John Savill, Regius Professor of Medical Sciences, University of Edinburgh, UK

16.30-17.30 2017 Cameron Prize for Therapeutics lecture: Building and
maintaining a global response to AMR
Professor Dame Sally Davies, Department of Health, UK

17.30-17.35 Closing remarks

*Early careers researchers: oral communications - for those with up to 7 years' full-time equivalent post-doctoral experience as of May 2018