



**BRITISH
PHARMACOLOGICAL
SOCIETY**

Today's science, tomorrow's medicines

2005 WINTER MEETING

19TH - 22ND DECEMBER

**Institute of Education, London
Hosted by University College London**

Monday

- 09.00 - 17.20 **The 6th UK NO Forum**
Brunei Gallery Lecture Theatre, Brunei Gallery
- 13.30 - 18.00 **Specialist Registrars' Training Afternoon**
The Woburn Suite, Montague Hotel

Tuesday

- 08.40 - 12.00 **Clinical Pharmacology Section Symposium**
Emerging targets in inflammatory diseases
Logan Hall
- 08.55 - 13.00 **UCL Pharmacology Centenary Symposium**
Receptors and ion channels
Brunei Gallery Lecture Theatre
- 09.00 - 12.45 **Industrial Symposium**
Mechanism-based pharmacokinetic-pharmacodynamic modelling and simulation in drug discovery and development
Drama Studio
- 12.00 **Buffet Lunch**
Exhibition Halls
- 12.15 - 13.15 **The Quintiles Prize Lecture**
"How corticosteroids switch off inflammation" given by Prof. Peter Barnes (*Imperial College, London*)
Logan Hall
- 13.30 - 14.30 **W D M Paton Memorial Lecture**
"From Cocaine to Chemotherapy: the Discovery and Therapeutic Exploitation of Selective 5-HT₃ Receptor Antagonists" given by Dr John Fozard (*Novartis, Switzerland*)
Brunei Gallery Lecture Theatre
- 13.30 - 17.00 **Clinical Pharmacology Section Symposium**
Education for new prescribers
Drama Studio
- 13.30 - 16.00 **Communications C009 - C018**
Nitric Oxide
Logan Hall
- 14.00 - 16.00 **Communications C001 - C008**
Pain & Inflammation
Nunn Hall
- 14.30 - 17.30 **UCL Pharmacology Centenary Symposium**
Receptors and channels
Brunei Gallery Lecture Theatre (290)
- 14.45 - 16.00 **Communications C019 - C023**
Pharmacokinetics & Drug Safety
Khailii Lecture Theatre
- 16.00 - 17.30 **Posters P001 - P035**
Pain, Nitric Oxide, Autonomic, Endocrine & Drug Safety
Exhibition Halls
- 17.30 **Clinical Pharmacology Section Annual General Meeting**
Nunn Hall
- 17.30 **Discussion and approval of Posters P001 - P035**
Logan Hall
- 18.00 - 20.00 **Welcome Reception**
South Cloisters, University College London
- 20.00 **Student Social Event**

Wednesday

- 08.30 - 10.00 **Clinical Pharmacology Section Poster Session Posters CP001 - CP037 & Undergraduate Prize Posters**
- 09.00 - 12.00 **Host Department Symposium**
Pain processes – from the molecular to the patient
Drama Studio
- 09.00 - 12.40 **Respiratory Special Interest Group Symposium**
Current and future treatment strategies for chronic obstructive pulmonary disease
Brunei Gallery Lecture Theatre
- 10.00 - 12.15 **Clinical Pharmacology Section Communications CC001 - CC009**
Logan Hall
- 12.00 - 14.30 **Buffet Lunch**
Exhibition Halls
- 12.30 - 13.30 **GlaxoSmithKline Prize Lecture for Research in Clinical Pharmacology**
"Treating malaria: oscillations in the development of a drug" given by Prof. Peter Winstanley (*Liverpool*)
Logan Hall
- 13.15 - 14.15 **JR Vane Medal Lecture**
"Smooth Muscle excitation: beyond the receptor" given by Prof. Thomas Bolton (*St George's Hospital, London*)
Brunei Gallery Lecture Theatre
- 13.30 - 17.30 **Clinical Pharmacology Section Communications CC010 - CC025**
Logan Hall
- 13.30 - 16.00 **Communications C024 - C033**
Molecular Pharmacology
Drama Studio
- 14.15 - 17.15 **Communications C040 - C051**
Pulmonary & Cardiovascular Pharmacology
Nunn Hall
- 14.30 - 16.00 **Communications C034 - C039**
Respiratory S.I.G.
Brunei Gallery Lecture Theatre
- 16.00 - 17.30 **Posters P036 - P078**
Molecular Pharmacology, Ion Channels, Cell Signalling & Respiratory S.I.G.
Exhibition Halls
- 17.30 **Discussion and approval of Posters P036 - P078**
Logan Hall
- 19.00 - 23.00 **Reception & Official Dinner**
Dixie Queen, Tower Pier

Thursday

- 09.00 - 12.30 **Systems and Cellular Neuropharmacology Special Interest Group Symposium**
Drug treatment of cognitive deficits: a panacea or pipedream?
Logan Hall
- 09.10 - 12.00 **Imaging Special Interest Group Symposium**
Imaging methods for studying receptors
Brunei Gallery Lecture Theatre
- 12.00 **Buffet Lunch**
Exhibition Halls
- 12.15 **British Pharmacological Society Annual General Meeting**
Nunn Hall
- 13.00 - 14.00 **Gary Price Memorial Lecture**
"From molecule to mind: the role of neuroimaging in psychotropic drug development" given by Prof. David Nutt (*Bristol*)
Logan Hall
- 14.00 - 16.00 **Communications C052 - C059**
Cell Signalling
Drama Studio
- 14.00 - 16.00 **Communications C060 - C067**
Pulmonary & Cardiovascular Pharmacology
Brunei Gallery Lecture Theatre
- 14.00 - 16.00 **Communications C068 - C075**
Cellular & Systems Neuropharmacology S.I.G.
Logan Hall
- 16.00 - 17.30 **Posters P079 - P129**
Pulmonary & Cardiovascular Pharmacology, Cellular & Systems Neuropharmacology S.I.G.
- 17.30 **Discussion and approval of Posters P079 - P129**
Logan Hall

The meeting will be held at the Institute of Education and the Brunei Gallery Lecture Theatre. The Registration Desk will be located in the main foyer of the Institute of Education; the entrance is at 20 Bedford Way, London WC1H 0AL. Please come to the desk on arrival to collect your name badge and bring your confirmation notice as proof of identity. The desk will be open from 8.30am until 6.00pm from Tuesday to Thursday.

Scientific Events

Monday 19th December

The 6th UK NO Forum, organised by Prof. Peter Barnes (*Imperial College London, U.K.*), Dr Adrian Hobbs (*UCL, U.K.*), Dr Richard Knowles (*GlaxoSmithKline, U.K.*) & Dr Alan Wallace (*AstraZeneca, U.K.*), will be held in the Brunei Gallery Lecture Theatre on Monday 19th December. Registration will start from 9.00am in the foyer of The Brunei Gallery. The Brunei Gallery is located between Malet Street and Thornhaugh Street, in the north-west corner of Russell Square opposite SOAS (School of Oriental & African Studies).

The Specialist Registrar's Forum, organised by Dr David Wood (*St. George's, London, U.K.*), will be held in The Woburn Suite of The Montague on the Gardens Hotel, 15 Montague Street, London WC1 which is a 2-3 minute walk from the Institute of Education, on the opposite side of Russell Square. Registration will start from 12.30pm at the Montague Hotel.

Tuesday 20th December

The meeting will commence at 8.40am with a symposium on **"Emerging targets in inflammatory diseases"** organised by Prof. Peter Barnes (*Imperial College London, U.K.*). A further two symposia will start shortly after; the **UCL Pharmacology Centenary symposium**, **"Receptors and ion channels"** at 8.55am, organised by Prof. Trevor Smart, Prof. Stuart Cull-Candy & Prof. Annette Dolphin (*UCL, U.K.*), and **"Mechanism-based pharmacokinetic-pharmacodynamic modelling and simulation in drug discovery and development"**, at 9.00am, organised by Dr Piet van der Graaf (*Pfizer, UK*) & Prof. Meindert Danhof (*Leiden University, The Netherlands*). From 1.30pm there will be another Clinical Pharmacology Section symposium on **"Education for new prescribers"** organised by Prof. Helen Leathard.

Wednesday 21st December

At 9.00am two parallel symposia will commence; **"Pain processes – from the molecular to the patient"** organised by Prof. Anthony Dickenson & Prof. Trevor Smart (*UCL, U.K.*) and **"Current and future treatment strategies for chronic obstructive pulmonary disease"** organised by Dr Domenico Spina (*Kings College London, U.K.*) & Dr Alexandre Triffilleff (*Novartis, U.K.*).

Thursday 22nd December

On Thursday morning there will be two symposia. **"Drug treatment of cognitive deficits: a panacea or pipedream?"** organised by Dr Trevor Sharp (*Uni. of Oxford, U.K.*), Dr. Nick Barnes (*Uni. of Birmingham, U.K.*), Dr. Ceri Davies (*GlaxoSmithKline, U.K.*) & Dr. William Watson (*Lundbeck, Denmark*) on behalf of the Cellular and Systems Neuropharmacology Special Interest Groups and **"Imaging methods for studying receptors"** organised by Dr Craig Daly (*Uni. of Glasgow, U.K.*).

Special Scientific Events

Tuesday 20th December

The Quintiles Prize Lecture, **"How corticosteroids switch off inflammation"** will be given by Prof. Peter Barnes (*Imperial College London, U.K.*) at 12.15pm in Logan Hall. At 1.30pm, Dr John Fozard (*Novartis, Switzerland*) will give the W D M Paton Memorial Lecture, **"From cocaine to chemotherapy: the discovery and therapeutic exploitation of selective 5-HT₃ receptor antagonists"** in the Brunei Gallery Lecture Theatre.

Wednesday 21st December

Prof. Peter Winstanley (*Liverpool, U.K.*) will give the GlaxoSmithKline Travelling Prize Lecture for research in Clinical Pharmacology entitled **"Treating malaria: oscillations in the development of a drug"** at 12.30pm in Logan Hall. The JR Vane Medal Lecture, **"Smooth Muscle excitation: beyond the receptor"** will be given by Prof. Thomas Bolton (*St George's Hospital, London*) in the Brunei Gallery Lecture Theatre at 1.30pm.

Thursday 22nd December

From 1.00pm, Prof. David Nutt (*Bristol, U.K.*) will give the Gary Price Memorial Lecture, **"From molecule to mind: The role of neuroimaging in psychotropic drug development"** in Logan Hall.

Other Events

On Tuesday 20th December at 5.30pm the **Clinical Pharmacology Section Annual General Meeting** will be held in Nunn Hall.

The **British Pharmacological Society Annual General Meeting** will be held in Nunn Hall from 12.15pm on Thursday 22nd December.

Poster Sessions

Poster sessions will be held in the Exhibition Halls. Wine and soft drinks will be served. Authors should attend their posters for the duration of the postsession as they will be refereed by a member of the BPS. Poster boards will be 1m wide by 2m high (portrait format). Posters can be displayed from the beginning of the day of the poster session except

on Wednesday when there are two poster sessions. Clinical pharmacology section posters should be displayed from 8.30 - 10.00am then removed so the Basic pharmacology posters can be mounted. In addition to those listed in the programme, CPS Undergraduate Prize winner's posters will be displayed on Wednesday and the winner of the national BPS prize in Clinical Pharmacology for medical students will be announced at the end of the morning session in Logan Hall. A list of presenters will be available from the registration desk. Posters will be attached by velcro and presenters are asked to bring their own supply. Please remove your poster promptly after the poster session. Poster approval sessions will immediately follow the end of each poster session in Logan Hall except Clinical posters which will be refereed during the session.

Oral Communication Sessions

Please see pages 2 and 3 for the details of which lecture theatre oral communications will be presented in. Please contact us in advance meetings@bps.ac.uk if you have any special requirements, including slide or overhead projection. To ensure compatibility please email your Powerpoint presentations as an attachment to: meetings@bps.ac.uk by 9th December. Please include the presenter's name and communication number. There will be a Preview Room to check your Powerpoint presentations located adjacent to Logan Hall open from 10.00am - 1.00pm each day.

Refreshments & Lunch

For those attending the 6th UK NO forum, coffee and lunch will be served in the Brunei Gallery, adjacent to the registration desk on the ground floor. On Tuesday, Wednesday and Thursday, tea and coffee will be served in the Exhibition Halls in the Institute of Education and in the foyer of the Brunei Gallery. A complimentary buffet lunch will be served in the Exhibition Halls and wine and soft drinks during the poster sessions.

Social Events

On Tuesday from 6.15pm there will be a Welcome Reception in the South Cloisters of University College London in the Wilkins Building, the entrance is on Gower Street. Drinks and nibbles will be served and music will be provided by the Bacchanalian String Quartet. Tickets cost £12.00 each and wine and nibbles will be served. Student members and the young at heart are invited to an informal get-together at the Grafton Arms, 72 Grafton Way from 7.00pm. Tickets cost £5.00 and include a buffet. Thanks go to Curtis Asante, Lucy Bee and Richard Gordon-Williams for organising this on behalf of the Student Members'

Sub-committee.

On Wednesday evening the Official Dinner will be held on board the Dixie Queen, a 3-tier Mississippi Paddle Steamer. Being based right by the Tower of London, guests will see Tower Bridge specially raised both ways. The cost is £57.00 per ticket which includes pre-dinner drinks and wine with the meal. Please note, guests will be able to board at Tower Pier from 18.45 onwards, sailing at 19.10 at the latest for Tower Bridge to lift at 19.30. The address is Tower Pier, Lower Thames River, EC3R 6DP and is a short walk from Monument, Tower Hill and London Bridge Underground stations. We will then return at 22.45 for a 23.00 disembarkation. If you miss the departure, for any reason, we cannot provide a refund. **Please note tickets for social events must be pre-booked on the Registration Form.**

Accommodation

Discounted hotel accommodation is available from Hotelpacc, please visit www.bps.ac.uk and go to the link for BPS Winter Meeting Event Hotels.

Access and Transport

By Underground/National Rail: There are 7 Underground stations within a few minutes walk, these are, Russell Square, Goodge Street, Tottenham Court Road, Euston, Euston Square, Warren Street, and King's Cross/St Pancras. Russell Square Underground Station is the nearest to the Institute main building. On leaving the station in Bernard Street, turn left. After 50m go straight over the traffic lights at the corner of Russell Square, then after 40m turn first right into Bedford Way. Other National Rail stations that are connected via the Underground as follows: **Liverpool Street:** either take the Central Line to Tottenham Court Road or take the Circle and Metropolitan Lines to Euston, Euston Square or King's Cross/St Pancras. **Paddington:** take the Circle or Hammersmith and City Lines to Euston Square, Euston or King's Cross/St Pancras. **Victoria:** either take the Victoria Line to Warren Street or take the Circle and Metropolitan Lines eastbound to Embankment and then the Northern Line northbound to Goodge Street or Warren Street. **Waterloo:** Northern Line to Goodge Street. For National Rail Enquiries see: www.nationalrail.co.uk **By Bus:** Connections are excellent from Euston Road, Gower Street, Tottenham Court Road and Southampton Row as they are all major bus routes. Bus number: **188** from Waterloo, **7** from Paddington which also stops at Tottenham Court Road, **91** from King's Cross/St Pancras and **59, 68, 168** and **91** from Euston. For Bus Route Planning see: www.tfl.gov.uk/buses

Contact Details

Tel: 07952 872718

Brunei Gallery Lecture Theatre

The 6th UK NO Forum

Organisers: **Peter Barnes** (*Imperial College London, U.K.*), **Adrian Hobbs** (*UCL, U.K.*), **Richard Knowles** (*GlaxoSmithKline, U.K.*) & **Alan Wallace** (*AstraZeneca, U.K.*)

- 09.00**
Registration & poster set-up with tea, coffee and pastries
- 10.00**
Welcome and Introduction
Peter Barnes
- 10.10** Session I (Chair: **Peter Barnes**)
10.10 Vilma Borutaite (*Cambridge*)
S-nitrosation of complex I causes ROS production by mitochondria
- 10.30** Catherine Shaw (*Edinburgh*)
Peroxynitrite, but not other NO-related species, induces apoptosis in human monocyte-derived macrophages
- 10.50** Shaun McMaster (*London*)
Phenotypes of vascular smooth muscle sense bacteria differently: implications for TLRs in vascular health
- 11.10** Coffee
- 11.30** Session II (Chair: **Alan Wallace**)
Caterina Brindicci (*London*)
Expression of nitric oxide synthase in peripheral lung of COPD patients and effects of oxidative stress on its activity and expression
- 11.50** Mark Birrell (*London*)
Effect of a glucocorticoid and an IKK-2 inhibitor in a pre-clinical model of airway disease: utility of exNO as a non-invasive biomarker of lung cellular burden
- 12.10** Alena Pance (*Cambridge*)
Interleukin-6 induces the human inducible nitric oxide synthase at the transcriptional level
- 12.30** Buffet lunch and poster session
- 14.00** Session III (Chair: **Adrian Hobbs**)
- Guest Lecture**
Jon Fukuto (*California, U.S.A.*)
"Thiols and Thiolproteins as Targets for the Actions of Nitrogen Oxides"
- 14.50** Valerie O'Donnell (*Cardiff*)
Nitric oxide suppresses cyclooxygenase bioactivity in the vasculature and platelets
- 15.10** Bilal Patel (*Bradford*)
Regulation of platelet nitric oxide synthase activity by tyrosine phosphorylation
- 15.30** Anna Walters (*London*)
Role of protein disulphide isomerase in delivery of various redox forms of nitric oxide into platelets

- 15.50** Coffee
- 16.10** Session IV (Chair: **Richard Knowles**)
16.10 Fiorentina Roviezzo (*Naples, Italy*)
Essential requirement for sphingosine kinase activity in eNOS-dependent NO release and vasorelaxation
- 16.30** Alister McNeish (*Bath*)
NO suppresses myogenic tone in rat middle cerebral artery by activating BK_{Ca} channels
- 16.50** Louise Harrington (*London*)
Temporal relationship between endothelium derived nitric oxide and 'EDHF'
- 17.10** Closing remarks, **Richard Knowles**
- 17.20** End of forum

Posters

- P1 Andrew Welland (*Edinburgh*)
Conformational relaxation of nNOS reductase domain by reversal of a single charge
- P2 Catriona Turnbull (*Edinburgh*)
A novel hybrid aspirin-nitric oxide donor drug inhibits TNF- α release from LPS-activated human macrophages in vitro
- P3 Mohamed Bani-Hani (*London*)
A water-soluble carbon monoxide-releasing molecules (CORM-3) reduces neuro-inflammation in BV-2 microglia
- P4 Sarah Fox (*Edinburgh*)
Nitric oxide-loaded Co²⁺ and Zn²⁺-exchanged zeolites have powerful anti-aggregatory properties in human platelets
- P5 Rocio Riba (*Bradford*)
Von willebrand factor induces platelet nitric oxide activation through interaction with GPIb-IX-V
- P6 Andrzej Loesch (*London*)
Are iNOS and ET-1 induced and co-localised in damaged smooth muscle cells of saphenous vein harvested for CABG?
- P7 Carlene Hamilton (*Glasgow*)
Nitric oxide dependent and independent vascular effects of IGF-1 in human saphenous vein
- P8 Stephen Lewis (*Georgia, U.S.A.*)
Are S-nitrosothiols EDRFS in the pulmonary circulation?

The Woburn Suite, The Montague on the Gardens Hotel

Specialist Registrars' Training Afternoon

Organiser: **David Wood** (*St. George's, London*)

Registration open from 12.30pm

13:30

Pharmacovigilance

Rafe Suvarna (*MHRA*)

14:45

Update on Medical Toxicology

Alison Jones (*Guy's Poisons Unit, London*)

16:00 Coffee

16:20

Early drug trials

David Sciberras (*Amgen Ltd, Cambridge*)

17:30

Trainee Issues

18.00 End of session

Logan Hall

Emerging targets in inflammatory diseases

Chair & Organiser: **Peter Barnes** (*National Heart & Lung Institute, Imperial College, London*)

08:40

Inflammatory cytokines

Finula Brennan (*Kennedy Institute, Imperial College, London*)

09:10

Fibroblasts as therapeutic targets

Chris Buckley (*University of Birmingham*)

09:40

Proinflammatory transcription factors

Ian Adcock (*National Heart & Lung Institute, Imperial College, London*)

10:10 Coffee

10:30

Chemokine and toll-like receptors

Ian Sabroe (*University of Sheffield*)

11:00

Phosphodiesterase 4

Clive Page (*GKT Medical School, London*)

11:30

MAP kinases

Jerry Saklatvala (*Kennedy Institute, Imperial College, London*)

12:00 End of symposium

12.15

The Quintiles Prize Lecture

“How corticosteroids switch off inflammation”

Prof. Peter Barnes
(*Imperial College, London*)

Brunei Gallery Lecture Theatre

Receptors and Ion Channels

UCL Pharmacology Centenary Symposium

Organisers: **Trevor Smart** (UCL), **Stuart Cull-Candy** (UCL) & **Annette Dolphin** (UCL)

08:55 Welcome
Trevor Smart

09:00
Mobile receptors and stable synapse
Antoine Triller (Ecole Normale Supérieure, Paris)

09:30
Neural Kv7 (KCNQ/M) potassium channels
David Brown (UCL)

10:00
Calcium channel $\alpha 2\delta$ subunits: their role in channel trafficking and disease
Annette Dolphin (UCL)

10:30 Coffee

11:00
Activation of NMDA receptors
Stephen Traynelis (Emory University, Atlanta, Georgia, USA)

11:30
GABA_A receptors: identifying an elusive allosteric binding site
Trevor Smart (UCL)

12:00
Functional role of GPCR dimerisation, what the metabotropic glutamate receptors tell us
Jean-Philippe Pin (CNRS, Montpellier, France)

12:30
Crystallographic analysis of glutamate receptor ligand binding mechanisms
Mark Mayer (NICHD, NIH, Bethesda, Maryland, USA)

13:00 Lunch

13.30
W D M Paton Memorial Lecture
From Cocaine to chemotherapy: the discovery and therapeutic exploitation of selective 5-HT₃ receptor antagonists
John Fozard (Novartis, Switzerland)

14.30
Glutamate receptors and synaptic plasticity in the hippocampus
Graham Collingridge (University of Bristol)

15.00
Plasticity of Ca²⁺-permeable AMPA-receptors at cerebellar synapses
Stuart Cull-Candy (UCL)

15.30 Tea

16.00
ATP-sensitive K channels and the scourge of diabetes
Frances Ashcroft (University of Oxford)

16.30
GABA_A receptors in the regulation of emotion and development
Hanns Möhler (University of Zurich, Switzerland)

17.00 End of symposium

Drama Studio

Mechanism-based pharmacokinetic-pharmacodynamic modelling and simulation in drug discovery and development

Organisers: **Piet van der Graaf** (Pfizer, UK) & **Meindert Danhof** (Leiden University, The Netherlands)

09:00 Introduction
Piet van der Graaf (Pfizer, UK)

09:05
Mechanism-based PK/PD for prediction of pharmacodynamics in human
Meindert Danhof (Leiden/Amsterdam Centre for Drug Research, Leiden, The Netherlands)

09:45
System biology-based disease modelling: from pathway to patient
Mikhail L. Gishizky (Entelos, Foster City CA, USA)

10:25 Coffee

10.45
Integrating PK/PD and biomarkers in drug discovery and early development
Johan Gabrielsson (AstraZeneca, Mölndal, Sweden)

11:25
Predicting QT interval prolongation in man from preclinical data: a mechanism-based PK/PD approach
Rob Wallis (Pfizer, Sandwich, UK)

12:05
Population PK/PD modelling of endogenous feedback systems
Mats Karlsson (Uppsala University, Sweden)

12.45 End of symposium

Supported by:
Astrazeneca, Entelos, Pfizer

Drama Studio

Education for new prescribers

12.15

The Quintiles Prize Lecture

“How corticosteroids switch off inflammation”

Prof. Peter Barnes
(Imperial College, London)

Logan Hall

13.30

W D M Paton Memorial Lecture

“From Cocaine to Chemotherapy: the Discovery and Therapeutic Exploitation of Selective 5-HT₃ Receptor Antagonists”

Dr John Fozard
(Novartis, Switzerland)

Brunei Gallery Lecture Theatre

13.30

Chair's Introduction
Helen Leathard (St Martin's College, Lancaster)

13.40

A brief history of the extension of prescribing rights
Margaret Abbott (St Martin's College, Lancaster)

14.00

Multi-professional education for prescribing
Mike Brownsell (University College Chester) and
Margaret Abbott (St Martin's College, Lancaster)

14.45

The BPS as a resource for the education of new prescribers
Dr Simon Maxwell, University of Edinburgh

15.15 Tea

15.45

Teaching pharmacology to those with limited background in chemistry
Helen L Leathard (St Martin's College, Lancaster)

16.15

Drug interactions: making sense of cytochrome P450
Martin Lennard (University of Sheffield)

16.45

Discussion

17.00 End of symposium

Logan Hall
Nitric Oxide

13.30

- C009 Fox S, Wheatley PS, Morris RE, Butler AR & Rossi AG
Nitric oxide-loaded CO₂⁺ and ZN²⁺-exchanged zeolites have powerful anti-aggregatory properties in human platelets
- C010 McMaster S, Paul-Clark M, Dhanji AL-R, Sriskandan S, Warner TD & Mitchell JA
Phenotypes of vascular smooth muscle sense bacteria differently: implications for TLRS in vascular health
- C011 Buckley MM & Johns EJ
Neural control of the kidney in a rat model of high output heart failure: impact of nitric oxide
- C012 McNeish AJ, Dora KA & Garland CJ
NO suppresses myogenic tone in rat middle cerebral artery by activating BK_{Ca} channels

14.30

- C013 Quilley J & Chen Y-J
Renal cox-2 and prostaglandin release in diabetes: role of NO synthase and aldose reductase
- C014 MacKenzie A, Gibson IF & Dowell FJ
Fundamental influence of transmural stretch on endothelial function in rat aortic rings
- C015 Kelly R & Snow HM
Effects of mean and pulsatile wall shear stress on the diameter of the iliac artery in the anaesthetized pig
- C016 Roviezzo F, Bucci M, Delisle C, Brancaleone V, Di Lorenzo A, Gratton JP & Cirino G
Essential requirement for sphingosine kinase activity in eNOS-dependent NO release and vasorelaxation

15.30

- C017 Harrington LS, Carrier MJ & Mitchell JA
Effects of apamin and charybdotoxin on endothelium independent vasodilatation: implications in the study of EDHF
- C018 Harrington LS, Carrier MJ & Mitchell JA
Temporal relationship between endothelium derived nitric oxide and 'EDHF'

Pain & Inflammation
Nunn Hall

14.00

- C001 Norling LV, Cooper D & Perretti M
Endogenous galectin-1 inhibits lymphocyte-endothelial cell interactions as determined by small interference RNA
- C002 Hayhoe R, Cooper D & Perretti M
Effect of annexin 1 on neutrophil-endothelial interactions in an *in vitro* flow chamber assay
- C003 Francischi JN, França DS, Ferreira-Alves DL, Duarte IDG & Bakhle YS
Endogenous opioids mediate analgesia due to selective inhibitors of cyclo-oxygenase-2 (cox-2) in rat inflamed paws
- C004 Dolan S
Selective blockade of metabotropic glutamate receptor 5 alleviates post-surgical pain in rats

15.00

- C005 Gavins FNE, Granger DN & Perretti M
Annexin 1 system protects against murine cerebral ischaemia-reperfusion injury
- C006 Vong L, D'Acquisto F, Flower RJ & Perretti M
Proteolysis of annexin-a1 by proteinase 3 – an autoantigen in Wegener's granulomatosis
- C007 Getting SJ, Grieco P & Perretti M
Anti-inflammatory effects of the MC3R agonist [D-TRP⁶]-γ-MSH in a model of experimental gouty peritonitis
- C008 Phuong AV, Flower RJ & D'Acquisto F
Modulation of Annexin-A1 promoter by inflammatory stimuli in human monocytes

Pharmacokinetics & Drug Safety
Khalili Lecture Theatre

14.45

- C019 Barter ZE, Rowland-Yeo K, Tucker GT & Rostami-Hodjegan A
Microsomal scaling factors and their variability for use in the prediction of human *in vivo* metabolic clearance
- C020 Anikina E, Pawlyn C, Chiu M, Lim L, Wong E, Eccleston M, Slater N & Barrand MA
Uptake and effects of doxorubicin-linked poly (L-lysine ISO-phthalamide) compounds in resistant and sensitive cancer cells
- C021 Clements-Jewery H, Kanaganayagam GS, Kabra R & Curtis MJ
Actions of flecainide on phase-2 ventricular arrhythmias during infarct evolution in rat isolated perfused hearts
- C022 Singh M, Hind C, Lee AJ & Williams D
The effect of the withdrawal of rofecoxib on prescribing patterns of cox-2 inhibitors in Scotland

15.45

- C023 Singh M, Hind C & Williams D
A study of drug utilisation in Scotland

Exhibition Halls
Pain & Inflammation

- P001 Huggins A, Perretti M & D'Acquisto F
Annexin A1 inhibits the maturation of dendritic cells while increasing their TH1 skewing properties
- P002 Clark AK, Pezet S, McMahon SB & Malcangio M
Release of interleukin 1 β from spinal microglia in the rat isolated dorsal horn
- P003 Pintér E, Helyes Z, Nemeth J, Sándor K, Elekes K, Szabó A, Pozsgai G, Keszthelyi D, Engström M, Würster S & Szolcsányi J
Effects of the SSTR₄ agonist J-2156 on neuropeptide release and inflammation
- P004 Strickland IT, Barton NJ, Brash HM, McQueen DS, Reeve AJ, Wilson AW & Chessell IP
A novel behavioural readout for assessing hypersensitivity of knee joints in a murine model of unilateral arthritis
- P005 Yshii LM, Souza GHMF, Hyslop S, Eberlin MN, Ribela MTP & Costa SKP
The plasma protein extravasation induced by polistes lanio lanio wasp venom in the mice skin: involvement of sensory- C fibers
- P006 Biddlestone L & Dolan S
An investigation into the therapeutic effects of the medicinal herb Ginkgo Biloba on pain and inflammation
- P007 Devall AJ, Princivale AP, Whitehead KJ & Richards DA
Thalamic c-FOS expression in a rat monoarthritic model
- P008 Starr A & Brain SD
Evidence that superoxide is a mediator of increased blood flow and plasma extravasation in skin
- P009 Keeble JE & Brain SD
Capsaicin-induced vasoconstriction of the mouse knee joint: involvement of TRPV1 receptors
- P010 Scotland RS, Duchene J, Hobbs AJ & Ahluwalia A
Gender-differences in leukocyte activation *in vivo*: role of endothelial-derived mediators
- P011 Colston J, Adams G & Chernajovsky Y
Assessing the biological and therapeutic characteristics of LAP-mIL-10
- P012 Vugler A, Moore A, Okoye R, Gozzard N, Bourne T, Lawson A & Foulkes R
The effects of two anti arthritic agents on *ex vivo* CD4+ cell proliferation from prearthritic collagen ii sensitised mice
- P013 Russell FA & Brain SD
Role of the neutrophil in tnfa-induced thermal hyperalgesia
- P014 Marshall D, Cameron J, Lightwood D, Lawson ADG & Foulkes R
An antibody to colony stimulating factor-1 (CSF-1) inhibits dss-induced colitis

Endocrine, Drug Safety & Education

- P015 El-Safa EA, Fredericks S, Johnston A & Holt DW
Effect of calcineurin inhibitor drugs, mTOR inhibitors and mycophenolate mophetil on the expression of mRNA IL-2
- P016 Chik Z, Johnston A, Tucker AT & Alam CA
The influence of correcting endogenous concentrations in the bioequivalence assessment of testosterone
- P017 Mayer G, Princivale MB, Goddard V, Corkill DJ, Haigh RM, Yea CM & Handy RLC
Investigation of the *in vitro* effect of vasopressin and oxytocin in the rat and guinea-pig uterus
- P018 Roberts S, Shaxted M, Xun W, Austin C, Rennie J & Hull R
Parathyroid hormone related peptide (PTHrP) - a potent relaxatory agent in rat, guinea-pig and human tissues

- P019 Samai M, Hague T, Naughton D, Gard P & Chatterjee P
Reduction of paraquat-induced nephrotoxicity by manganese and copper complexes of EGTA and EHPG

Nitric Oxide

- P020 McNeish AJ, Dora KA & Garland CJ
A role for thromboxaneA₂ in constriction to an inhibitor of NO synthase in rat middle cerebral artery
- P021 Guzzetta M, Ongini E & Impagnatiello F
NCX4016 inhibits lps/infy-induced iNOS protein activity in raw 264.7 macrophages by acting at the transcriptional and post-translational levels
- P022 Richards DA & Devall AJ
Dual-cell electrochemical detection of 3-nitrotyrosine following reversed-phase HPLC separation
- P023 Tucker AT, Ekwebelem TC, Heath M, Johnston A & Telfer P
Effects of a topical nitric oxide generator on skin microcirculation in sickle cell disease
- P024 Oberprieler NG, Graham AM, Homer-Vanniasinkam S, Naseem KM
Nitric oxide inhibits α IIb β 3 dependent platelet adhesion to fibrinogen by regulation of outside-in signalling
- P025 Francis SA & Ahluwalia A
Lipopolysaccharide-induced changes in resistance artery vasoactivity: interaction between eNOS and iNOS
- P026 Turnbull CM, Cena C, Fruttero R, Gasco A & Megson IL
A novel hybrid aspirin-nitric oxide donor drug inhibits TNF- α release from LPS-activated human macrophages *in vitro*
- P027 Matthiesen S, Heideking M & Racké K
GM-CSF up-regulates arginase and iNOS in rat alveolar macrophages in a glucocorticoid-sensitive manner
- P028 Bani-Hani M, Greenstein D, Mann BE, Green CJ & Motterlini R
A water-soluble carbon monoxide-releasing molecules (CORM-3) reduces neuro-inflammation in BV-2 microglia

Autonomic Pharmacology

- P029 El-Majdoub A, Naylor RJ & Tuladhar BR
Modulation of peristalsis by 5-hydroxytryptamine in the mouse isolated colon
- P030 El-Majdoub A, Naylor RJ & Tuladhar BR
Modulation of peristalsis by SUR1-type K_{ATP} channel ligands in the mouse isolated colon
- P031 Piper-Brown S & McMurray G
Characterisation of alpha 2 adrenoceptor subtype involved in inhibition of neurally evoked rat bladder contractions
- P032 Huang C & Johns EJ
Lipofectin and the effect of antisense ODN for AT1 receptors on thirst in conscious rat
- P033 Huang C & Johns EJ
Effect of ICV applied AT1 receptor antisense ODN on baroreflex control of renal sympathetic nerve activity in conscious rat
- P034 Bexis & Docherty JR
Involvement of adrenoceptors in the temperature effects of MDMA in the mouse
- P035 Michel MC, Okutsu H, Noguchi Y, Suzuki M, Ohtake A, Yuyama H, Yanai H, Ukai M, Watanabe M, Someya A & Sasamata M
***In vivo* studies on the effects of α_1 -adrenoceptor antagonists on pupil diameter in rabbits**

Exhibition Halls

- CP001 Beck CR, Rowland K & Yeo WW
Psychomotor and cognitive effects of nicotine versus associated measures of dependence in smokers
- CP002 Amatsaleh AA, Schoemaker RC & van Gerven JMA
Investigation of the effects of ethanol on different central nervous system parameters in healthy volunteers
- CP003 de Haas SL, de Visser SJ, van der Post JP, de Smet M, Schoemaker RC, Rijnbeek B, Cohen AF, Vega JM, Agrawal NGB, Goel TV, Simpson RC, Pearson LK, Li S, Hesney M, Murphy MG & van Gerven JMA
Pharmacodynamic effects of TPA023, a GABA-A $\alpha_{2,3}$ subtype selective agonist, compared to lorazepam and placebo in healthy volunteers
- CP004 Sprigg N, Gray LJ & Bath PM
Glycerol trinitrate, a nitric oxide donor, reduces blood pressure and other haemodynamic measures in acute stroke
- CP005 Payne RA, Isnardi I, Andrews PJD, Maxwell SRJ & Webb DJ
Similarity between the suprasystolic wideband external pulse and the first derivative of the intra-arterial pulse wave
- CP006 Mahmud A & Feely J
Doxazocin reduces aortic wave reflection but not pulse wave velocity in essential hypertension
- CP007 Jatoi NA, Mahmud A & Feely J
Impact of cigarette smoking on arterial stiffness and blood pressure in essential hypertension
- CP008 Zhou S, Mahmud A, Spiers JP & Feely J
Matrix metalloproteinase-9 polymorphism contributes to blood pressure and large arterial stiffness in essential hypertension
- CP009 Kabir Z, Bennett K & Feely J
Prescribing patterns for anti-hypertensive drugs in general practice following recent large hypertension trials
- CP010 Salih I, Thanacoody HKR, McKay G & Thomas SHL
Effect of single-dose chlorpromazine on the QTc interval in healthy adult volunteers
- CP011 Thanacoody HKR, Daly AK, Reilly JG, Ferrier IN & Thomas SHL
Genetic factors influencing steady-state plasma concentrations of thioridazine and its metabolites
- CP012 Wu Y, Farrell J, Pirmohamed M, Park BK & Naisbitt DJ
Characterisation of cytotoxic CD8+ T-cells from carbamazepine hypersensitive patients
- CP013 Bennett K & Feely J
Prescribing of antiarrhythmic agents in Ireland: 1990-2004
- CP014 Hatch E, Sconce EA, Daly AK & Kamali F
A rapid genotyping method for the vitamin K epoxide reductase complex subunit 1 (VKORC1) gene
- CP015 Franciosi LG, Yang SY & Della Pasqua OE
Assessment of the probability of COPD exacerbations using poisson regression models
- CP016 Clayton JA, Le Jeune IR & Hall IP
Severe hyponatraemia in medical in-patients: aetiology and outcome
- CP017 Ghobadi C, Tien NH, Amer S, Rostami-Hodjegan A, Lennard MS & Ledger WL
Validation of an existing model for the prediction of response to clomifene citrate
- CP018 Bennett K & Feely J
Trends and variations in the prescribing of anti-diabetic therapies in Ireland

- CP019 Strid S, Borgå O, Nilsson D & Werner J
NO clinically significant interaction between NXY-059 and furosemide in healthy volunteers
- CP020 Van LM, Hargreaves JA, Rowland-Yeo K, Lennard MS, Tucker GT & Rostami-Hodjegan A
Variation in the inactivation of CYP2D6 by MDMA (ecstasy) among different heterologously expressed enzymes
- CP021 Naughton C, Bennett K & Feely J
Irish general practitioners (GP) views on a drug prescribing feedback
- CP022 Teeling M, Bennett K, O'Connor H & Feely J
How did the withdrawal of rofecoxib impact on prescribing of non-steroidal anti inflammatory drugs?
- CP023 Cantarini MV, Farmer MR, Smith RP & Mant T
Tolerability results from a phase I interaction study of GEFITINIB and warfarin in healthy male volunteers
- CP024 Coleman JJ
A systematic review of ethnic differences in the risks of adverse reactions to drugs used in cardiovascular medicine
- CP025 Coulter EM, Wu Y, Farrell J, Pease CK, Lockley DJ, Basketter DA & Park BK
Differential activation of lymphocytes from p-phenylenediamine sensitised patients and healthy volunteers
- CP026 Powles L & Jackson PR
How much information should we give patients about drug side-effects: a 'willingness to pay' approach
- CP027 Lewis LD, Lee HK, Schur BC, Jannetto PJ, Wong SH, Tsongalis GS & Yeo K-T Y
A novel microarray technology for CYP2D6 genotyping
- CP028 Cartwright CS, Vora AJ & Lennard L
Intra-individual variation in thiopurine methyltransferase activities in children with lymphoblastic leukaemia
- CP029 Clayton JA, Wheatley AP, Blakey JD & Hall IP
Thiazide diuretic induced hyponatraemia and polymorphisms in the thiazide sensitive co-transporter gene (*slc12a3*)
- CP030 Usher C, Bennett K, Teeling M & Feely J
NSAID prescribing before and after rofecoxib withdrawal in patients at cardiovascular risk
- CP031 Okechukwu I, Bennett K & Feely J
Evaluating the use of oral nutritional supplements in primary care in Ireland
- CP032 Moon JC, Vallance P & Bogle RG
Can we afford it? The challenge and rewards of proposed new nice guidelines on statins
- CP033 Alfirevic A, Mills T, Carr D, Barratt BJ, Pinel T, Sherwood J, Jawaid A, Tugwood J, Smith JC, March RE, Park BK & Pirmohamed M
Genetic analysis of tacrine-induced transaminitis
- CP034 Beck CR, Yeo WW, Price C, Soady J & Skinner J
5-year smoking habit questionnaire study
- CP035 Sanderson JP, Naisbitt DJ, Farrell J, Drummond N, Mathews KL, Pirmohamed M, Clarke SE & Park BK
Dendritic cell metabolism of sulfamethoxazole leads to increased CD40 expression: a key determinant of immunogenicity
- CP036 Gudmundsdottir IJ, Webb DJ & Newby DE
Protease-activated receptor-1 activation causes platelet independent venoconstriction *in vivo* in man
- CP037 Black C & Williams D
Trends in lipid lowering agent utilisation in Scotland

Drama Studio

Pain Processes – from the molecular to the patient

Organisers: **Anthony Dickenson** (*Pharmacology, UCL*) & **Trevor Smart** (*UCL*)

09.00

Translation from animals to patients
Anthony Dickenson (*UCL, U.K.*)

09.30

Molecular approaches to pain targets
J Wood (*UCL, U.K.*)

10.00

Integrated systems in animals – pain symptoms and treatments
R Suzuki (*Pharmacology, UCL*)

10.30 Coffee

10.45

Measures of pain and drug mechanisms in humans
T Jensen (*Aarhus, Denmark*)

11.15

Imaging pain in humans: from agony to analgesia
I Tracey (*University of Oxford*)

11:45

General discussion

12.00

End of symposium

Brunei Gallery Lecture Theatre

Current and future treatment strategies for chronic obstructive pulmonary disease

Organisers: **Domenico Spina** (*Kings College London*) & **Alexandre Trifilieff** (*Novartis, U.K.*)

09.00 Welcome address

09.05 Pathological and clinical characteristics of COPD
Peter Barnes (*Imperial College London*)

09.40 Clinical overview of the current treatment of COPD
Mario Cazzola (*Antonio Cardarelli Hospital, Italy*)

10.15 Determinants of drug response and variability: Endpoints and disease progression in COPD
Oscar Della Pasqua (*GlaxosmithKline, U.K.*)

10.45 Coffee

11.00 Markers of disease and exacerbation severity in COPD
Lui Franciosi (*Leiden University, The Netherlands*)

11.30 In vivo modelling of COPD
Michael Salmon (*GlaxosmithKline, U.S.A.*)

12.05 New therapeutic strategies: molecular approach
Steve I. Rennard (*University of Nebraska Medical Centre, U.S.A.*)

12.40 End of symposium

Logan Hall

- 10.00
- CC001 Bruck H, Poenicke K, Leineweber K & Brodde O-E
Agonist-specific β_2 -adrenoceptor signaling in rat ventricular cardiomyocytes: does it occur also in the human heart?
 - CC002 Leineweber K, Bruck H & Brodde O-E
Inotropic catecholamine support after coronary artery bypass surgery in relation to ARG389Gly β_1 -adrenoceptor polymorphism
 - CC003 Goubareva I, Queen LR, Ritter JM & Ferro A
Age and sex have important effect on platelet nitric oxide production
 - CC004 Gkaliagkousi E, Queen L, Corrigan V, Ritter J & Ferro A
Decreased platelet nitric oxide synthase activity and increased monocyte-platelet aggregates in essential hypertension

- 11.00
- CC005 Queen LR, Jackson SHD, Thomas S & Ferro A
High glucose increases, and high homocysteine inhibits, nitric oxide synthase activity in platelets
 - CC006 Gkaliagkousi E, Corrigan V, Ritter J & Ferro A
Nitric oxide regulates the formation of circulating monocyte-platelet aggregates in healthy subjects
 - CC007 Attinà TM & Webb DJ
Effects of the phosphodiesterase type 5 inhibitor sildenafil citrate on exercise-induced vasodilatation in hypertensive patients
 - CC008 Oliver JJ & Webb DJ
Time dependent interactions of the hypotensive effects of sildenafil and sublingual GTN in men with stable angina

- 12.00
- CC009 O'Kane P, Jackson G & Ferro A
Acute systemic aspirin administration increases basal but suppresses β_2 -adrenoceptor-stimulated forearm blood flow

The winner of the national BPS prize in Clinical Pharmacology for medical students will be announced at the end of the morning session.

- 13.30
- CC010 Maki-Petaja KM, Booth AD, Hall FC, Wallace SML, McEniery CM, Yasmin, Bearcroft PWP, Harish s, Furlong A, Brown J & Wilkinson IB
Rheumatoid arthritis is associated with increased aortic stiffness and can be reduced with anti-tnf- α -therapy
 - CC011 Salih I, Thanacoody HKR, McKay G & Thomas SHL
Effect of single-dose thioridazine and mesoridazine on the QTc interval in healthy adults
 - CC012 Simpson CR, Lefevre K, Hannaford PC & Williams D
Do age, gender and deprivation differences exist in risk factor recording for stroke patients after the introduction of the general medical services contract?

- 14.15
- CC013 Mahmud A & Feely J
Does age predict the response to anti-hypertensive treatment- the ABCD rule in retrospect
 - CC014 Akhondzadeh S, Mokheri K & Kashani L
Is there a relationship between estrogen serum level and symptoms severity throughout the menstrual cycle of patients with schizophrenia?
 - CC015 Szabadi E, Hou RH, Langley RW & Bradshaw CM
Comparison of the effects of modafinil and diphenhydramine on arousal and autonomic functions in healthy volunteers

- 15.00
- CC016 Sconce EA, Khan TI, Daly AK, Wynne HA & Kamali F
Simvastatin results in a lower warfarin dose requirement due to a reduced clearance of warfarin
 - CC017 Bogle RG, Vallance P & Moon JC
Pharmacoeconomic analysis of statin therapy in England; how to save £2 billion and improve health
 - CC018 Thanacoody HKR, Daly AK, Reilly JG, Ferrier IN & Thomas SHL
Effects of CYP2D6 genotype on QTc interval in recipients of thioridazine
 - CC019 Barron TI, Bennett K & Feely J
Impact of high dose statin trials and hospital prescribers choice of statin and statin dose

- 16.00
- CC020 Pugh L, Simpson CR & McLay JS
Prescribing to patients on warfarin in general practice: the potential for harm. a retrospective cross-sectional study
 - CC021 Ross S, Simpson C & McLay J
Homeopathy and herbalism in primary care
 - CC022 Stebbing C
The role of advice in administration medication errors in the paediatric ambulatory setting
 - CC023 Wood DM, Monaghan J, Streete P, Dargan PI & Jones AL
Fatality following ibuprofen intoxication with an associated metabolic acidosis

- 17.00
- CC024 Wood DM, Greene SL, Jones AL & Dargan PI
Cocaine use as a risk factor for patients with myocardial ischaemia is not recorded by junior doctors
 - CC025 Wood DM, Greene SL, Dargan PI & Jones AL
Junior doctors have a poor knowledge of methods of gut decontamination in acutely poisoned patients

The afternoon session will be followed by the announcement and presentation of the The GlaxoSmithKline Prize for CPS Oral Communications and The Pfizer CPS Poster Prizes for the best oral and poster communication.

12.30

GlaxoSmithKline Prize Lecture for Research in Clinical Pharmacology

“Treating malaria: oscillations in the development of a drug”

Prof. Peter Winstanley (*Liverpool, U.K.*)

Logan Hall

13.15

JR Vane Medal Lecture

“Smooth Muscle excitation: beyond the receptor”

Prof. Thomas Bolton (*St George's Hospital, London*)

Brunei Gallery Lecture Theatre

Drama Studio
Molecular Pharmacology

13.30

- C024 Kasorn A, Kendall DA & Alexander SPH
Lysophosphatidic acid increases intracellular free calcium ion levels in Neuro 2A and CHO.A2A cells
- C025 Pullen S, Sale H, Napier C, Mansfield R & Holbrook M
Maraviroc is a pseudo-irreversible antagonist at the human CCR5 in a cre-luciferase reporter gene assay
- C026 Dickinson JA, Hanrott KE, Kew JNC & Wonnacott S
 $\alpha 7$ nicotinic acetylcholine receptors promote ryanodine-sensitive Ca^{2+} -induced Ca^{2+} release in PC12 cells
- C027 Butler AS, Lindsay SA, Dutton AC, Dover TJ, Hope AG & Barnes NM
Critical role of the C-terminal amino acids of the human 5-hydroxytryptamine_{3A} receptor subunit

14.30

- C028 Goodwin JA & Hulme EC
Comparative studies of the binding of ligands to mutant M₁ muscarinic receptors
- C029 Mead EJ, Kuc RE, Maguire JJ & Davenport AP
Discovery of kisspeptins, ligands for the orphan G-protein coupled receptor KISS1, as potent vasoconstrictors in rat aorta
- C030 Michel AD
P2X7 antagonist effects of decavanadate and its use as a tool for studying antagonist interactions with the P2X7 receptor
- C031 Wilkinson WJ, Jiang L-H & North RA
Interactions between subunits in agonist activation of heteromeric P2X_{2/3} receptors

15.30

- C032 More JCA, Dolman NP, Alt A, Knauss JL, Bleakman D, Collingridge GL & Jane DE
Novel potent GLU_{K6} selective kainate receptor antagonists
- C033 Ali FY, Warner TD, Davidson SJ & Mitchell JA
Anti-thrombotic effect of statins in human platelets are mediated by activation of PPAR receptors: implications for cardioprotective properties

Brunei Gallery Lecture Theatre
Respiratory Special Interest Group

14.30

- C034 Paul-Clark M, McMaster S & Mitchell JA
Cigarette smoke synergises with bacterial PAMPs
- C035 Smith SJ, Catley MC, Rumsey WL, Newton R, Barnes PJ & Donnelly LE
A role for IKK2 involvement, but not NF- κ B, in IFN- γ stimulated release of the CXCR3 ligand IP-10 from human airway epithelial cells
- C036 Traves SL, Barnes PJ, & Donnelly LE
The chemotactic properties of sputum in chronic obstructive pulmonary disease: a role for specific chemokine receptor antagonists
- C037 Trifilieff A, Bonneau O, Wyss D, Ferretti S, Blyden C & Stevenson CS
Effect of CGS21680, an adenosine A_{2A} receptor agonist, in murine models of asthma and chronic obstructive pulmonary disease

15.30

- C038 Matthiesen S, Kempkens S, Bahulayan A, Juergens UR & Racké K
Muscarinic stimulation of human lung fibroblast proliferation
- C039 Moffatt JD, Lever R & Page CP
Bronchorelaxant and anti-inflammatory effects of urocortin III in mice

**Pulmonary & Cardiovascular Pharmacology
Nunn Hall**

14.15

- C040 Winter P & Dora KA
Differential role of K_{Ca} in dilatation evoked by luminally-perfused purinergic agonists in rat small mesenteric arteries
- C041 Saldanha LM, Yeung SYM & Greenwood IA
The effects of the KCNQ potassium channel blocker XE991 on mouse aorta excitability
- C042 Madhani M, Torondel B, MacAllister RJ & Hobbs AJ
Selective modulation of natriuretic peptide-mediated dilatation in the pulmonary vasculature: a novel combination therapy for pulmonary hypertension
- C043 Goddard AM & Ahluwalia A
Role for sensory neuropeptides in AA-induced coronary vasodilation: a potential mechanism for 12-LOX-induced cardioprotection?

15.15

- C044 Kelland NF, Bagnall AJ, Morecroft I, Gulliver-Sloan FH, Dempsey Y, Nilson M, MacLean MR, Kotelevtsev Y & Webb DJ
Endothelial cell-specific knockout of the ET_B receptor exaggerates hypoxia induced pulmonary arterial hypertension
- C045 Virdee JS, Collin M, Thiemermann C, Hobbs AJ & Ahluwalia A
Interaction between hydrogen sulphide and nitric oxide in the regulation of vascular tone
- C046 Bennett T, March JE, Kemp PA & Gardiner SM
Regionally-selective hyper-responsiveness to K_{ATP} channel-mediated vasodilatation during lipopolysaccharide (LPS) infusion in conscious rats
- C047 Queen LR, Paul W, Page CP & Ferro A
Increased platelet aggregation in a rat model of type 2 diabetes

16.15

- C048 Rossouw E & Curtis MJ
Preliminary investigation into possible nongenomic ventricular rhythm effects of aldosterone in rat hearts *in vitro*
- C049 Belcher E, Stanford SJ, Evans TW & Mitchell JA
Role of toll-like receptor 4 in left ventricular cavity dimensions
- C050 Harrington LS, Dhanji A, Nier BA, Weinberg PD, Mitchell JA, Warner TD & Carrier MJ
Parecoxib, a COX-2 selective inhibitor, influences the arterial pulse wave shape in rabbits
- C051 Dhanji A-R, Bishop-Bailey D, Mitchell JA, Carrier MJ & Warner TD
Activities of vascular smooth muscle cells- a comparison of intimal and medial populations and their regulation

**Exhibition Halls
Molecular Pharmacology**

- P036 Baker JG & Hill SJ
Antagonist affinity measurements at the histamine H2 receptor are independent of the agonist used
- P037 Quirk K & Strange PG
The rate of [35 S]GTP γ S dissociation from G proteins reflects agonist efficacy
- P038 Staddon S, Wheatley M, Poyner DR & Conner AC
Characterisation of a C-terminal deletion mutant of the calcitonin receptor-like receptor
- P039 Conner AC, Simms J, Howitt SG, Wheatley M & Poyner DR
Multiple residues within the second extracellular loop of the CL receptor are required for receptor activation by CGRP
- P040 Rodionova EA, Holst B, Schwartz TW, Cox HM & Holliday ND
Role of the C-terminus in ghrelin receptor internalisation
- P041 CL Padgett and SCR Lummis
The F-loop of the $\gamma 2$ subunit contributes to diazepam efficacy in the GABA $_A$ receptor
- P042 Gill CH, Moore SE, Rance K, Yusaf SP, Courtenay N, Sanger GJ, Holbrook JD, Gunthorpe MJ
Functional characterisation of novel human 5-HT $_3$ receptor subunits (HTR3C-E)
- P043 Buckingham SD, Jones AK & Sattelle DB
Pre-mRNA editing alters affinity and efficacy of the drosophila GABA receptor, RDL
- P044 Kimura A, MacColl G, French K, Melton D, Chapman K & Holmes M
Mice underexpressing 5 HT $_{2C}$ receptors in brain are hyperphagic, hyperactive and healthy
- P045 Carrillo J, Weyman-Jones C, Beri R, Jupp R, Arrowsmith E, McNicol G, Bell F & Schmidt J
Pharmacological characterisation of recombinant dog CRTH2
- P046 Katugampola S, Sutcliffe L, Morris R & Napier C
Evidence to suggest the post synaptic α -adrenoceptor contraction in the canine saphenous vein is not consistent with human A $_{2A}$ receptors
- P047 Marshall C, Sargent C, Young S & Barker J
Is there a CRTH2 functional response in the dog?
- P048 Root J, Coles E, Katugampola S, Napier C & Holbrook M
Norfenfluramine is a full agonist at human 5-HT $_{2B}$ receptors; evidence from a pre-clinical bioassay that predicts 5-HT $_{2B}$ agonism in man
- P049 Giraldo J, Serra J, Roche D & Rovira X
Estimating receptor affinity for inverse agonists
- P050 More JCA, Dolman NP, Collingridge GL & Jane DE
Structure activity relationships for novel willardiine-derived GLU $_K5$ kainate receptor antagonists

Ion Channels,

- P051 Schenzer A, Friedrich T, Pusch M, Saftig P, Jentsch TJ, Grötzinger J & Schwake M
The molecular determinants of KCNQ2-5 (Kv7.2-5) channels propagating sensitivity towards the anticonvulsant retigabine
- P052 Clark GS, Todd D, Liness S, Maidment SA, Liness S, Dowler S & Southan AP
Expression and characterisation of a two pore potassium channel in HEK293 cells using different assay platforms

- P053 Davies R, Rogers M, Tang L, Tang R, Madge D, Pinnock R & Ford J
Targeting the Nav1.3 sodium channel in the development of novel treatments for neuropathic pain
- P054 Athanasiadu D, Schwake M, Jentsch TJ, Saftig P & Friedrich T
A C-terminal protein fragment of KCNQ2 is able to modify the pore properties of KCNQ3
- P055 Pym L, Buckingham S, Boyd CAR & Sattelle D
Effects of A β_{1-42} mutants linked to familial Alzheimer's disease on recombinant human neuronal nicotinic acetylcholine receptors (nAChRs)
- P056 Tai K, Hamaide MC, Debaix H, Wibo M & Morel N
TRPC1 is involved in receptor-activated calcium entry in rat aortic smooth muscle cells

Cell Signalling

- P057 Jenkins D, Rawlins P & Unitt J
Characterisation of different macrophage cell systems using tnfa production inhibitors
- P058 Bradley ME & Chariton SJ
Optimising a [35 S]GTP γ S assay for agonist potency rather than signal-to-noise ratio
- P059 Abdel-Razaq WS, Bates TE & Kendall DA
Differences in antidepressant-induced changes in cyclic amp-driven gene transcription *in vitro*
- P060 Roman SA, Chessell IP & Michel AD
Effect of extracellular divalent cations on P2X7 receptor-mediated IL-1 β release from THP-1 human monocytic cells
- P061 Michel AD, Khaznadar T & Chessell IP
Characterisation of CB2 agonist effects on forskolin-stimulated changes in cellular cyclic AMP
- P062 Bailey CP, Kelly E & Henderson G
Determining functional receptor loss during morphine tolerance
- P063 Blackman SK, Gibson A & McFadzean I
Calcium store depletion reduces the sensitivity of KCl-induced contractions to calcium channel antagonists in mouse aorta
- P064 Haggren M, Collins C & Elliott JM
D-serine potentiates the induction of arc mRNA by MDMA in rat frontal cortex but not parietal cortex
- P065 Sheridan G, Pickering M, Moynagh PN, O'Connor JJ & Murphy KJ
Tumour necrosis factor- α selectively upregulates nuclear factor κ B expression in hippocampal neuronal sub-populations
- P066 Garle MJ, Clark JS & Alexander SPH
A fluorescence-derivatisation assay for fatty acid amide hydrolase activity

Respiratory Special Interest Group

- P067 Rhodes J, Stuart E & Trevelthick M
Measurement of receptor dissociation rate of un-labelled compound from recombinant human muscarinic M3 receptors
- P068 McEvoy LAF, Poll CT, Westwick J & Li SW
Receptor-operated and voltage-operated calcium entry mechanisms in agonist-evoked contraction of mouse small airways: potential role of TRPC6

- P069 Bahra P, Finney-Hayward TK, Donnelly LE, Poll CT, Westwick J & Li S
Pharmacological characterisation of PAF-stimulated Ca $^{2+}$ responses in human lung interstitial macrophages
- P070 Marshall S, Marshall J, Patel S, Rhodes J, Stuart E & Trevelthick M
Determination of duration of action of muscarinic M3 antagonists in the electrical field stimulated guinea pig isolated trachea
- P071 Adcock J, Keir R, Moore B, Yeadon M & Trevelthick M
The effect of tussive and non-tussive agents on airway sensory nerves in the anaesthetised rabbit
- P072 Pype JL, Xu H, Verheyden YY, Devlieghere MA, Meurrens KT, Peck MJ & Vanscheeuwijck PM
Lung function in murine models of asthma, emphysema and pulmonary fibrosis
- P073 John E, Jackson A & Broadley KJ
Mucus production and tolerance to inhaled ovalbumin in a guinea pig model of chronic asthma
- P074 Kay LJ, Suvama SK, Chess-Williams R & Peachell PT
 β -Adrenoceptor expression in different regions of human lung
- P075 Teles AM, Teixeira SA, Muscara MN, Kumagai Y, Costa SKP
Pharmacological study addressing the link between sensory c-fibers and airways inflammation evoked by air pollutants
- P076 Douglas G, Brown C & Liu W
***In vivo* efficacy of the selective H $_4$ antagonist JNJ 7777120 in a sephadex model of pulmonary eosinophilia**
- P077 Jenkins DW, Ashra S & Unitt JF
Comparison of compound cytotoxicity in A549 and H292 lung epithelial cell lines *in vitro*
- P078 Chidgey SM & Broadley KJ
Time course correlations of lung function, inflammation and viral titre after airways infection with parainfluenza-3

Logan Hall

Drug treatment of cognitive deficits: a panacea or pipedream?

Chair/Organisers: **Trevor Sharp** (Oxford, U.K.), **Nick Barnes** (Birmingham, U.K.), **Ceri Davies** (GSK, U.K.), **William Watson** (Lundbeck, Denmark)

09:00

Cellular models of learning and memory
Ceri Davies (GSK, U.K.)

09:15

Behavioural models of learning and memory
David Bannerman (Oxford, U.K.)

09:45

AMPA receptor potentiators
Michael O'Neill (Eli Lilly, UK)

10:15

Novel 5-HT receptor ligands
Kevin Fone (Nottingham, U.K.)

10:45 Coffee**11:00**

Glycine/NMDA modulators
Mark Tricklebank (Eli Lilly, U.K.)

11:30

GABA inverse agonists
Karen Maubach (Merck Sharp & Dohme, U.K.)

12:00

Nicotinic receptor modulation of attention
Ian Stolerman (Institute of Psychiatry, King's College London, U.K.)

12:30 End of symposium

Brunei Gallery Lecture Theatre

Imaging methods for studying receptors

Chair/Organiser: **Craig Daly** (Glasgow, U.K.)

09:00

Imaging techniques for studying receptors
Craig Daly (Glasgow, U.K.)

09:15

Fast scanning of biological samples with high sensitivity and maximum spatial resolution
Les Borland (Zeiss)

09:45

Image deconvolution
Bob Kolbe (Autoquant)

10:15

3D and 4D image processing
Marius Messerli (Bitplane)

10:45 Coffee**11:00**

CNS receptor imaging
Paul Chazot (University of Durham)

11:20

FCS studies of receptor-ligand interactions
Stephen Briddon (Queen's Medical Centre, Nottingham)

11:40

PET for dose selection of lecozotan, a 5HT_{2A} antagonist used in Alzheimer's disease
Alain Patat (Wyeth Research)

12:00 End of symposium**Supported by:****Autoquant, Bitplane, Wyeth, Zeiss**

13.00pm

Gary Price Memorial Lecture

“From molecule to mind: the role of neuroimaging in psychotropic drug development”

Prof. David Nutt (Bristol)
Logan Hall

Drama Studio
Cell Signalling

14.00

- C052 Wyatt CN, Peers C, Kumar P, Hardie DG & Evans AM
The effect of AMP-kinase activators on oxygen-sensing type 1 cells of the rat carotid body
- C053 Mundell SJ, Jones ML, Barton JF, Hardy AR & Poole AW
Specific protein kinase C isoforms regulate platelet purinergic receptor function
- C054 Barton JF, Poole AW & Mundell, SJ
TXA₂ and purinergic receptor cross-talk in human platelets: desensitisation at the level of calcium signalling
- C055 D'Acquisto F
Annexin A1: a novel molecular determinant for T cell differentiation and activation

15.00

- C056 Cunningham MR, Goh FG, Nilsson M, Sekiguchi F & Plevin R
Proteinase-activated receptor-2 mediated phosphorylation of P65 NFκB is regulated by an inhibitory kappa B kinase and PKC - dependent pathway in keratinocytes
- C057 Abbott JJ, Brown J, Howlett DR, Francis PT & Williams RJ
Aβ₁₋₄₂ alters AKT activity via α₇ nicotinic and N-methyl D-aspartate receptors: implications for Alzheimer's disease
- C058 Cumiskey D & O'Connor JJ
A role for mGluRs and Ca²⁺ in the inhibitory effect of tumour necrosis factor-α on long-term potentiation
- C059 Kou B, Ni J, Vatish M & Singer DRJ
VEGF protects from apoptosis induced by oxidant stress and angiotensin II in HUVECs by PI-3K dependent and P-38 MAPK independent pathways

Brunei Gallery Lecture Theatre
Pulmonary & Cardiovascular Pharmacology

14.00

- C060 Patel TA, Harding SE, Warner TD & Mitchell JA
Gram positive bacteria reduce viability and contraction of isolated cardiomyocytes: role of endothelin-1
- C061 Ali NN, Brito-Martins M, Poole-Wilson P & Harding SE
Human embryonic stem cell-derived cardiomyocytes as a pharmacological preparation: beta-adrenoceptor responses
- C062 Belcher E, Harding SE, Patel TA, Evans TW & Mitchell JA
Toll-like receptor ligands differentially affect cardiomyocyte function
- C063 Sim J, Stiles C, Bishop-Bailey D, Warner TD & Carrier MJ
The effect of methylglyoxal on the survival of phenotypically distinct vascular smooth muscle cells

15.00

- C064 Yeung SYM & Greenwood IA
Characterisation of ERG K⁺ currents in murine vascular smooth muscle myocytes under quasi-physiological conditions
- C065 Ali O, Growcott EJ, Wilkins MR & Wharton J
Anti-proliferative and pro-apoptotic effects of statins on human pulmonary artery smooth muscle cells
- C066 Cartwright N, Sriskandan S, Quesniaux V, Ryffel B, Evans TW & Mitchell JA
Tumor necrosis factor is essential for *s.aureus*, but not *e.coli* induced vasoplegia: relevance to toll like receptor signalling and sepsis
- C067 Cartwright N, Heel DV, McMaster S, Paul-Clark M, Evans TW & Mitchell JA
NOD1, but not NOD2 agonists induce nosII and vasoplegia via a TLR2 and TLR4 independent pathway

Cellular & Systems Neuropharmacology

Logan Hall

14.00

- C068 Mbaki Y, Westbrook S & Ramage AG
The role of 5-HT₂ receptor subtypes in the control of the urethra and the micturition reflex in anaesthetised female rats
- C069 Broadstock M, Mansour Y & Duty S
MGLU4, but not MGLU8A, receptors mediate group III MGLU receptor actions in the rat substantia nigra
- C070 Boothman L, Raley J & Sharp T
Electrophysiological evidence of a role for 5-HT_{2C} receptors in the feedback inhibition of 5-HT neuronal activity
- C071 O'Neill C, Nolan B, O'Boyle KM & O'Connor JJ
SCH23390 attenuates A₁ receptor-mediated inhibition of electrically evoked dopamine release from rat striatal slices

15.00

- C072 King VR, Torup L, Averill SA, Priestley JV & Michael-Titus AT
Erythropoietin is neuroprotective in a rat hemisection model of spinal cord injury
- C073 O'Boyle KM, Murphy AK & Callanan JJ
MDMA and caffeine: a lethal combination
- C074 Jennings K, Sheward J, Harmar T, Deacon R & Sharp T
Evidence that mice engineered to overexpress the 5-HT transporter have a low-anxiety phenotype
- C075 Callaerts-Vegh Z, Beckers T, Baeyens F, Callaerts PF, Cryan J & D'Hooge R
Impairments in working memory and fear extinction in mice lacking the metabotropic glutamate receptor subtype 7

Pulmonary & Cardiovascular Pharmacology

- P079 Kuc RE, Maguire JJ, Jones KL, Pitkin S, Wiley KE, Gardiner S, Bennett T, & Davenport AP
CRF₂ receptor expression in the rat cardiovascular system
- P080 Kuc RE, Ashby MJ, Seed A, Passier P, Essers H, McMurray J & Davenport AP
The ECE / NEP inhibitor SLV306 (daglutril), inhibits systemic endogenous conversion of infused big endothelin-1 in human volunteers
- P081 Kuc RE, Maguire JJ, Kelland NF, Bagnall AJ, Kotelevtsev YV, Webb DJ & Davenport AP
Brain ET_A receptors are downregulated in ET_B-deficient mice but are unaltered in endothelial cell-specific ET_B knock-out
- P082 Coles E, Gray A, Katugampola S, & Napier C
Investigating the functional role of adenosine receptor agonists on the contractility of canine isolated left atria *in vitro*
- P083 Musami P, Mandy Skasick M, Moffat JD, Andrews PL, & Greenwood I
Protease activated receptor-4 in murine hepatic portal vein
- P084 Marshall KM, Dempsey Y, Palmer TM & MacLean MR
Inhibition of Rho-kinase blocks pulmonary vascular effects of 5HT in mice over-expressing the 5HT transporter
- P085 Marshall KM, Maclean MR & Palmer TM
The effects of inhibiting endocytosis on 5HT mediated proliferation and ERK activation
- P086 Patel TA, Harding SE, Warner TD & Mitchell JA
Protective role of cyclooxygenase-2 in bacteria-induced myocyte failure
- P087 Wray JA, Sugden MC, Zeldin DC, Greenwood GK, Degraff LM, Bradbury JA, Holness MJ, Warner TD & Bishop-Bailey D
Cytochrome P450 2J2 (CYP2J2) overexpression augments PPAR α activation *in vivo*
- P088 Johnson WB, Katugampola S & Harding SE
Effects of phosphodiesterase inhibitors on the contraction of myocytes from rat, guinea pig and human ventricle
- P089 Jones RL, Hung GHY, Lam FFY, Chan KM & Sasaki Y
Effects of Rho-kinase inhibitors on contractile synergism involving a prostanoid EP₃ agonist in rat femoral artery
- P090 Alapati VR, McKenzie C, MacDonald A & Shaw AM
The involvement of voltage operated calcium channels (VOCC) in the contractions mediated by U46619 & 5-HT in bovine pulmonary arteries
- P091 Alapati VR, McKenzie C, MacDonald A & Shaw AM
The role of chloride in the activation of store-operated calcium channels by CPA and U46619 in bovine pulmonary arteries
- P092 Marro ML & Hobbs AJ
Characterisation of α_1 and β_1 soluble guanylate cyclase promoter activity
- P093 Hamid SA, HSF, Baxter GF
Y27632, a Rho kinase inhibitor, limits myocardial reperfusion injury through a nitric oxide-dependent mechanism
- P094 Tam CW, Clark NC, Douglas G, Husmann K, Born W, Poston L, Poston R & Brain SD
Evaluating vascular responses of RAMP2 overexpressing mice

- P095 Gudmundsdottir IJ, Kell JS, Megson IL & Newby DE
Thrombin induces protease-activated receptor independent human platelet aggregation
- P096 Robertson TP, Peers C, Lewis TH, Sandock K, Hashmi-Hill M, Vandenplas M, Lewis SJ
Endothelial and endothelium-dependent activation of Rho-kinase during hypoxic pulmonary vasoconstriction in rat intrapulmonary arteries
- P097 Dempsey Y, Morecroft I, Nilsen M, Loughlin L & MacLean MR
Effects of dexfenfluramine on development of pulmonary hypertension in mice over-expressing the 5HT transporter
- P098 Morecroft I Dempsey Y, Nilson M, & Maclean MR
Dexfenfluramine reduces right ventricular pressure in chronic hypoxic mice over-expressing the 5-HT transporter
- P099 Piqueras L, Warner TD & Bishop-Bailey D
PPAR α induces endothelial cell proliferation and angiogenesis *in vitro*
- P100 McGillicuddy F, O'Toole D, Hickey J, Lynch I, Dawson KA & Keenan AK
***In vitro* biocompatibility assessment of a novel potential drug eluting stent coating in human coronary artery endothelial cells**
- P101 Methven L, Daly C & McGrath JC
Visualisation of endothelial α_1 -adrenoceptors in the murine carotid artery
- P102 Chadha PS, Moffatt JD & Lever R
Effect of nicotinic acetylcholine receptor stimulation on endothelial-dependent relaxation in rat mesenteric arteries
- P103 Graham D, Oliver JJ, Dhayalan SN, Maxwell SR
Doctors and the public concord in their acceptance of antihypertensive drugs
- P104 Noble MIM, Drake-Holland AJ, Kelly R, Ruane T & Snow HM
Effect of hyperglycaemia on endothelial dependent dilatation in the iliac artery of the anaesthetized pig
- P105 Dear JW, Kobayashi H, Jo SK, Holly MK, Hu X, Yuen PST, Brechbiel MW & Star RA
***In vivo* detection of renal injury and drug action using a novel MRI technique in a mouse model of sepsis**

Cellular & Systems Neuropharmacology

- P106 Ge J, Andrews N & Marston HM
Co-administration of atypical and typical antipsychotic agents with a sub-threshold concentration of NMDA potentiates extracellular taurine levels in the rat striatum *in vivo*
- P107 Ge J, Andrews N & Marston HM
Glycine re-uptake GlyT-1 inhibitor ORG 25935 potentiates NMDA induced taurine levels in the rat striatum *in vivo*
- P108 Vaz SH, Ribeiro JA & Sebastião AM
BDNF decreases [³H]GABA uptake in hippocampal nerve terminals, an effect independent of adenosine A_{2A} receptor activation
- P109 Andreetta F, Faedo S, Negri M, Mangiarin L, Corsi M & Wren P
Comparison of the pharmacological characteristics of rodent and marmoset GAT-1
- P110 O'Leary DM, Grennan GZ, O'Connor JJ & Herron CE
The role of arachidonic acid signalling in mGluR mediated long term depression in the rat hippocampus

- P111 Nucci C, Tartaglione R, Morrone LA, Rombola L, Pelle C, Fazzi E & Bagetta G
Evidence for estrogen receptor independent neuroprotection afforded by 17 β -estradiol (E₂) in a model of acute angle closure glaucoma in rat
- P112 Bellido I, Gomez A, Lopez-Arquillos C, Tinaone F, Beato L & De la Cuesta S
Low-weight anorexia nervosa is related with a reduced 5-HT_{1A} receptor bound in platelet membranes
- P113 Raley J, Denk F, Boothman L & Sharp T
Immunohistochemical evidence that 5-HT_{2C} receptor agonist administration activates GABA neurones in the rat drn
- P114 Pousinha P
The BDNF excitatory effect on synaptic transmission is dependent on adenosine receptor activation at the rat diaphragm neuromuscular junction
- P115 Arkle MJ & Ebenezzer IS
The effects of the 5-HT_{1A} receptor agonist 8-OH-DPAT on sucrose and saccharine consumption in food deprived rats
- P116 Ebenezzer IS
Effects of GABA_B receptor agonist baclofen on food intake in the mouse
- P117 Houston AJ, Wong JW & Ebenezzer IS
Effects of the opioid receptor antagonist naloxone on baclofen- and morphine-induced hypodipsia in rats
- P118 Burki UA, Noristani H & Ebenezzer IS
The effects of chronic administration of sertraline on 8-OH-DPAT-induced hypophagia in rats
- P119 Kurttila M & MacDonald E
Pre-administration of alpha-2-adrenoceptor antagonists potentiates amphetamine-induced tachycardia in anaesthetized mice
- P120 Yan T, Hunt SP & Stanford SC
Comparison of regulation of K⁺- and *d*-amphetamine-induced noradrenaline efflux in NK1^{-/-} and NK1^{+/+} mice
- P121 Ash ES, Urch K & Stanford SC
Contrasting effects of *d*-amphetamine on extracellular glutamate in different areas of the rat cortex
- P122 Biggs CS, Locke IC, Knight RA, Chowdrey HS & Whittom PS
Urocortin attenuates key indicators of nigrostriatal pathway destruction in a rat hemiparkinsonian model
- P123 Dissanayake WDN, Marsden CA & R Mason R
Effect of phencyclidine on hippocampal sensory gating under isoflurane anaesthesia in the rat
- P124 Amantea D, Mazzei C, Bari M, Spagnuolo P, Pasquariello N, Corasaniti MT, Bagetta G, Maccarrone M
Neuroprotection afforded by 17-estradiol in a rat model of transient middle cerebral artery occlusion implicates modulation of fatty acid amide hydrolase (FAAH) activity
- P125 Rowley HL, Cheetham SC, Heal DJ & Blackburn TP
The HT 2157-induced increase in extracellular 5HT levels in the frontal cortex of freely moving rats is modulated by 5HT_{1A} receptors
- P126 Dawson N, Ferrington L, Oliverman HJ, Harmar AJ & Kelly AT
Altered cerebral glucose metabolism in the response to DOI in serotonin transporter over-expressing mice
- P127 Rowley HL, Cheetham SC, Heal DJ & Blackburn TP
Effects of HT 2157, a galanin 3 receptor antagonist, on extracellular levels of 5HT in various brain regions of freely moving rats

- P128 Owen JCE & Whitton PS
Chronic treatment with antidepressants reversibly alters NMDA mediated regulation of extracellular 5-HT in rat cortex
- P129 Pullen S, Sale H, Napier C, Mansfield R & Holbrook M
Maraviroc is a pseudo-irreversible antagonist at the human CCR5 in a cre-Luciferase reporter gene assay

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10th - 11th April**Focused Meeting: High Throughput GPCR Pharmacology?**
Novartis Horsham Research Centre, Horsham, U.K.27th - 28th April**Focused Meeting on Controlling Acute Inflammation**
Institute of Child Health, London, U.K.

Summer

28th June**Summer Celebration at London Zoo**

Autumn

11th - 13th September**4th James Black Conference: "The Challenges of Drug Discovery and Development"**
University of Hertfordshire, U.K.

Winter

19th - 21st December**75th Anniversary Meeting, Oxford, U.K.**

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