

Sunday 22nd July 2012	
12.00 – 19.00	Registration Open
17.00 – 18.30	Exhibition & Poster Viewing
17.00 – 18.30	Opening Ceremony

Monday 23rd July 2012	
08.00 – 19.30	Registration Open
10.45 – 19.30	Exhibition & Poster Viewing
08:30 – 09:15	<p>Plenary 1 – Introduced by Andrew Gow</p> <p>Nitric Oxide, the Whispering Transmitter John Garthwaite (University College London)</p>
09.15 – 11.05	<p>NO and Neuroscience Chairs: John Garthwaite & Guy Brown</p>
09.15 – 09.45	<p>IS-1 NO/cGMP Signalling in Hippocampal Glutamatergic Neurons Doris Koesling (Ruhr University)</p>
09.45 – 10.15	<p>IS-2 Nitric Oxide: Roles in Neurovascular Regulation and Ischemic Brain Injury Costantino Iadecola (Cornell University)</p>
10.15 – 10.45	<p>IS-3 Nitration of Amyloid β in Alzheimer's Disease Markus Kummer (University of Bonn)</p>
10.45 – 10.55	<p>O1-1 Neuronal Hypoxia-Reoxygenation and Nitric Oxide; A Protective Role of Autophagy Jianhua Zhang (University of Alabama at Birmingham)</p>
10.55 – 11.05	<p>O1-2 Role of CaMKII in Nicotine-induced p38 MAP Kinase Activation Aya Kajiwara (Showa Pharmaceutical University)</p>
11.05 – 11.00	Tea/Coffee, Posters & Exhibition
11.40 – 13.10	<p>NO and Mitochondria Chair: Chris Cooper</p>
11.40 – 12.10	IS-4

12.10 – 12.40	<p>Nitric Oxide and Bioenergetic Reserve Capacity; Insights from Alcohol Induced Hepatotoxicity Victor Darley-USmar (University of Alabama at Birmingham)</p>
12.10 – 12.40	<p>IS-5 Mitochondrial Biogenesis: CO and NO too Claude Piantadosi (Duke University)</p>
12.40 – 12.50	<p>O2-1 S-Guanylation Proteomics for Redox-based Mitochondrial Signaling Tomohiro Sawa (Kumamoto University)</p>
12.50 – 13.00	<p>O2-2 NO-mediated Modulation of Mitochondrial Energy Production by Melatonin Marzia Arese (Sapienza University of Rome)</p>
13.00 – 13.10	<p>O2-3 A Comparison of Nitric Oxide and Hydrogen Sulphide Interactions with Mitochondrial Cytochrome c Oxidase Doug Marshall (University of Essex)</p>
13.10 – 14.00	Lunch, Posters & Exhibition
14.00 – 15.50	<p>Sport Science and Endothelial Function Chair: Tony Butler</p>
14.00 – 14.30	<p>IS-6 NO And Hypoxia: Taking Nitrate To New Heights Martin Feelisch (University of Southampton)</p>
14.30 – 15.00	<p>IS-7 Nitrate/Nitrite and Physical Function in Peripheral Arterial Disease Jason Allen (Duke University)</p>
15.00 – 15.30	<p>IS-8 Effect of Dietary Nitrate on Skeletal Muscle Energetics in Normoxia and Hypoxia Anni Vanhatalo (University of Exeter)</p>
15.30 – 15.40	<p>O3-1 The effect of dietary nitrate supplementation on performance in trained male flatwater kayakers David Muggerridge (Kingston University)</p>
15.40 – 15.50	<p>O3-2 Alteration in Vascular Nitric Oxide Metabolism in Control and Diabetic Subjects Following an Acute Exposure to Roadway Air Pollution</p>

	Ashley Pettit (Rutgers University)
15.50 – 16.20	Tea / Coffee, Posters & Exhibition
16.20 – 18.10	Molecular and Post-translational Regulation of NOS Enzymes Chair: Dennis Steuhr
16.20 – 16.50	IS-9 Tetrahydrobiopterin and Electron Transfer in NO Synthase Simon Daff (University of Edinburgh)
16.50 – 17.20	IS-10 Post-translational Heme Insertion into NOS and Related Enzymes Dennis Stuehr (Cleveland Clinic)
17.20 – 17.50	IS-11 Role of Hsp90- and Hsp70- Chaperones in Regulation of Neuronal NO-synthase Ubiquitination and Proteasomal Degradation Yoichi Osawa (University of Michigan)
17.50 – 18.00	O4-1 Tetrahydrobiopterin and Glutathionylation Dependent Regulation of eNOS Coupling: Relationships Revealed by eNOS Glutathionylation Mutants in Cells with tet-regulated GTP Cyclohydrolase I Expression Mark Crabtree (University of Oxford)
18.00 – 18.10	O4-2 Quantitative Proteomics of the Cytokine-modulated NOS2 Interactome in Airway Epithelial Cells Matthew Foster (Duke University)
18.10 – 19.30	Poster Session I & Exhibition Viewing

Tuesday 24th July 2012	
08.00 – 19.30	Registration Open
10.45 – 18.00	Exhibition & Poster Viewing
08.30 – 09.15	Plenary 2 – Introduced by Tony Butler Nitric Oxide.....from the Beginning Sir Salvador Moncada (Wolfson Institute for Biomedical Research)
09.15 – 11.05	NO in the Cardiovascular System Chair: Philip James
09.15 – 09.45	IS-12

<p>09.45 – 10.15</p> <p>10.15 – 10.45</p> <p>10.45 – 10.55</p> <p>10.55 – 11.05</p>	<p>Smouldering Hearts: A Mills and Boon Classic Dave Newby (University of Edinburgh)</p> <p>IS-13 Coupling NOS to Endothelial Function and Inflammation in Cardiovascular Disease Keith Channon (University of Oxford)</p> <p>IS-14 Nitrite – A Potential Therapy for Decompensated Heart Failure? Michael Frenneaux (University of Aberdeen)</p> <p>O5-1 Endothelial cell expression of hemoglobin α regulates nitric oxide signalling Adam Straub (University of Virginia)</p> <p>O5-2 Loss of Nitroglycerin-induced Blood Pressure Lowering in Redox-dead Cys42Ser PKG1α Knock-in Mouse Olena Rudyk (Kings' College London)</p>
<p>11.05 – 11.40</p>	<p>Tea/Coffee, Posters & Exhibition</p>
<p>11.40 – 13.30</p> <p>11.40 – 12.10</p> <p>12.10 – 12.40</p> <p>12.40 – 13.10</p> <p>13.10 – 13.20</p> <p>13.20 – 13.30</p>	<p>Angiogenesis and Therapeutics Chairs: Amrita Ahluwalia & Adrian Hobbs</p> <p>IS-15 Redox Control of Endothelial NO- Bioactivity John Keane Jr. (University of Massachusetts)</p> <p>IS-16 Nitrite/Nitric Oxide Regulation of Therapeutic Angiogenesis for Diabetic Ischemic Vascular Disease Chris Kevil (Emory University)</p> <p>IS-17 Old Dog, New Tricks: Therapeutic Potential of the NO Pathway in Pulmonary Hypertension Ralph Schermuly (University of Giessen)</p> <p>O6-1 Binding of XOR to Cellular Glycosaminoglycans (GAGs) Facilitates Nitrite Reductase Activity under Oxygenated Conditions Eric Kelley (University of Pittsburgh)</p> <p>O6-2 Hypoxic Radiosensitization by Nitric Oxide Lisa Folkes (University of Oxford)</p>

13.30 – 14.30	Lunch, Posters & Exhibition
14.30 – 16.00	Hot Topics / Late Breaking News
16.00 – 16.30	Tea / Coffee, Posters & Exhibition
16.30 – 18.00	Poster Session II
18.00 – 19.30	<p>How to Measure NO? Chair: Andrew Gow</p> <p>Panel Session</p> <p>John Garthwaite (University College London)</p> <p>Jack Lancaster (The University of Alabama at Birmingham)</p>

Wednesday 25th July 2012	
08.00 – 13.00	Registration Open
10.45 – 13.00	Exhibition & Poster Viewing
08.30 – 09.15	<p>Examining NO Reaction with Biological Targets Chair: Andrew Gow</p> <p>Panel Session</p> <p>Jon Fukuto (Sonoma State University)</p> <p>Bruce Freeman (University of Pittsburgh)</p>
09.15 – 10.45	<p>Chemistry of NO Signaling Chair: Ian Megson</p>
09.15 – 09.45	<p>IS-18 Mechanisms of HNO Biology Jon Fukuto (Sonoma State University)</p>
09.45 – 10.15	<p>IS-19 Formation and Signaling Actions of Electrophilic Fatty Acid Derivatives Bruce Freeman (University of Pittsburgh)</p>
10.15 – 10.25	<p>07-1 8-SH-cGMP endogenously formed from 8-nitro-cGMP as a second messenger of hydrogen sulphide Takaaki Akaike (Kumamoto University)</p>
10.25 – 10.35	<p>07-2 S-nitrosoglutathione reductase is a key enzyme in hypoxic and</p>

10.35 – 10.45	<p>post-hypoxic ventilatory signalling Scott Dwyer (University of Virginia)</p> <p>07-3 Nanomaterial antennae in photo-delivery of bioactive molecules Peter Ford (University of California Santa Barbara)</p>
10.45 – 11.15	Tea/Coffee, Posters & Exhibition
11.15 – 13.05	<p>NO and Immunology / Inflammation Chair: Richard Weller</p>
11.15 – 11.45	<p>IS-20 Nitric Oxide Regulates T Cell Responses Eddy Liew (University of Glasgow)</p>
11.45 – 12.15	<p>IS-21 RONS in Inflammatory Neurodegeneration Guy Brown (Cambridge)</p>
12.15 – 12.45	<p>IS-22 Regulated Release of Nitric Oxide by Nonhematopoietic Stroma Controls Expansion of the Activated T Cell Pool in Lymph Node Veronika Lukacs-Kornek (Dana-Farber Cancer Institute)</p>
12.45 – 12.55	<p>08-1 Nitrite Superfusion Reduces Leukocyte-endothelial Interactions in the Mouse Cremaster Model Rayomand Khambata (Queen Mary University of London)</p>
12.55 – 13.05	<p>08-2 A Novel Role for iNOS in Formation of cGMP-dependent Protein Complex Regulating TNF-receptor Shedding and Hepatocellular Protection during Endotoxemia Savanh Chanthaphavong (University of Pittsburgh)</p>
13.05 – 14.05	Lunch, Posters & Exhibition
14.05 – 18.00	Excursions
19.30 – 23.00	Gala dinner at the Playfair Library

Thursday 26th July 2012	
08:00 – 13:00	Registration Open
08.30 – 09.15	<p>Plenary 3 – Introduced by Richard Weller</p> <p>Functional and Structural Analysis of the Mouse S-nitrosocysteine</p>

	<p>Proteome Harry Ischiropoulos (Children's Hospital of Philadelphia Research Institute)</p>
09.15 – 11.05	<p>NO and Plant Signaling Chair: Gary Loake</p>
09.15 – 09.45	<p>IS-23 S-nitrosylation in Plant Defense Jörg Durner (Technical University of Munich)</p>
09.45 – 10.15	<p>IS-24 Nitric Oxide Produced during the Hypersensitive Response Modulates the Plant Signaling Network and Inhibits the Pathogen's Virulence Machinery Massimo Delledonne (University of Verona)</p>
10.15 – 10.45	<p>IS-25 GAPDH, NtOSAK and CDC48, a Conserved Chaperone-like AAA+-ATPase, as Nitric Oxide Targets in Plants Challenged by (a)biotic Stresses David Wendehenne (University of Burgundy)</p>
10.45 – 10.55	<p>09-1 Title TBC Speaker TBC</p>
10.55 – 11.05	<p>09-2 Title TBC Speaker TBC</p>
11.05 – 11.30	Tea / Coffee
11.30 – 13.20	<p>NO in Microbiology Chair: Simon Daff</p>
11.30 – 12.00	<p>IS-26 Antimicrobial Actions of Nitric Oxide Ferric Fang (University of Washington)</p>
12.00 – 12.30	<p>IS-27 Nitric Oxide Synthesis By Bacterial Cytochrome cd₁ Nitrite Reductases Francesca Cutruzzola (University of Rome)</p>
12.30 – 13.00	<p>IS-28 Bacterial Haemoglobins and Nitric Oxide: Diversity and Redundancy? Robert Poole (University of Sheffield)</p>
13.00 – 13.10	<p>O10-1 Metagenomic Analysis of Bacteria from Human Tongue Scrapings</p>

13.10 – 13.20	<p>Reveals Novel Bacterial Communities that Contribute Nitrite and Nitric Oxide to the Host Nathan Bryan (The University of Texas)</p> <p>O10-2 Endogenous Nitric Oxide Production in the Radioresistant Bacterium <i>Deinococcus Radiodurans</i> Determines Lipid Composition and is Essential for Rapid Growth Recovery after Gamma-irradiation Alex Hansler (Weill Cornell Graduate School)</p>
13.30	Conference Closes
14.00 – 17.30	Satellite Symposia on Plants and Microbes