

# FINAL PROGRAM

## 3<sup>rd</sup> UK NO Forum

10<sup>th</sup> January 2003

The Wolfson Institute for Biomedical Research, Cruciform Building  
University College London, Gower Street, London

- 8:30-9:30 Registration & poster set-up  
9:30 Introduction – Salvador Moncada
- 9:45 **Nitric oxide in cardiovascular function** (Chair Salvador Moncada)  
9:45 **Andy Gow** (*Philadelphia*)  
S-Nitrosothiol as a vasoactive agent: chemical considerations
- 10:00 **Richard Bruckdorfer** (*University College Medical School, London*)  
Detection of S-nitrosothiols in patients of Systemic Sclerosis and Raynaud's phenomenon
- 10:15 **Adele Gordon** (*Edinburgh*)  
Interactions of NO with the renal endothelin system – localisation of the endothelin type B receptor using a transgenic approach
- 10:30 **Daniel Heaton** (*Oxford*)  
Delivery of NOS-1 transgene promotes cardiac vagal gain of function in isolated guinea pig atria
- 10:45 **Mike Dashwood** (*University College Medical School, London*)  
Is vein graft occlusion due to reduced NO following surgical trauma?
- 11:00-11:30 Coffee/Tea (UCL Main building)
- 11:30 Nitric oxide and NO synthases** (Chair Mike Finnen)
- 11:30 **Andrew Munro** (*Leicester*)  
Interaction of nitric oxide with cytochromes P450
- 11:45 **Chris Cooper** (*Essex*)  
Does nitric oxide react with copper proteins in the brain?
- 12:00 **David Stammers** (*Oxford*)  
Crystal structure of SANOS; a bacterial nitric oxide synthase oxygenase protein from *Staphylococcus aureus*
- 12:15 **Ali Mani** (*University College Medical School, London*)  
Endogenous nitration of para-hydroxyphenylacetic acid in vivo: implication with nitrotyrosine metabolism
- 12:30 **Marc Boris Dürner** (*Sheffield*)  
Analysis of nitrite from biological fluids by SERRS
- 12:45 **Emily Swindle** (*Liverpool*)  
Use of the highly sensitive probes 4,5-diaminofluorescein (DAF-2) and dichlorofluorescein (DCF) reveals that rat macrophages but not mast cells generate intracellular nitric oxide following ovalbumin or LPS/IFN $\gamma$  stimulation
- 13:00-14:30 Sandwich lunch & posters (UCL Main building)

**14:30 NO and inflammation** (Chair Alan Wallace)

- 14:30 **Declan Naughton** (*Brighton*)  
Nitric oxide and its deleterious role in oxidative stress
- 14:45 **Michael Murphy** (*Cambridge*)  
S-nitrosylation and glutathionylation of mitochondrial respiratory complexes in response to nitrosative stress
- 15:00 **Sergei Kharitonov** (*NHLI, London*)  
Flow-independent exhaled NO: an iNOS marker in asthma and COPD
- 15:15 **Jorge De Alba** (*GSK, Stevenage*)  
Involvement of iNOS in two different models of inflammatory pain

15:30-15:45 Break

**15:45 NO in the nervous system** (Chair Ken Smith)

- 15:45 **Guy Brown** (*Cambridge*)  
Glial-neuronal signalling via NO, superoxide and glutamate: the key to inflammatory neurodegeneration?
- 16:00 **Nicholas Kasim** (*Oxford*)  
Nitric oxide, cell death and neural transplantation
- 16:15 **Selim Cellek** (*WIBR, London*)  
Selective nitrenergic degeneration in diabetes mellitus is due to the synergistic action of advanced glycation end products and endogenous nitric oxide leading to apoptosis
- 16:30 **Victoria Wykes** (*WIBR, London*)  
Kinetics of nitric oxide-cGMP signalling in CNS cells and its possible regulation by cGMP
- 16:45 **Despina Constantin** (*Nottingham*)  
*Neisseria meningitidis*-induced death of cerebrovascular endothelium: molecular mechanisms triggering activation of the NO synthase-2 gene
- 17:00-18:00 Closing comments (Richard Knowles)  
Followed by informal reception with wine and nibbles in the Cruciform Building cafeteria