

# **NO News is Good News**

## **Detection, measurements and quantification of Nitric Oxide: Tools for NO research**

**Friday 23<sup>rd</sup> March 2007: BioPark, Welwyn Garden City**

*Nitric oxide (NO), generated by the enzyme nitric oxide synthase (NOS) plays a key role in a diverse range of physiological and pathophysiological conditions within the cardiovascular, immune, reproductive and nervous systems. Since NO is a small, diffusible, highly reactive free radical with a short half-life, and is present in low concentrations, real-time detection of NO is extremely difficult. This meeting will examine methods used to detect and visualise NO-producing cells. Furthermore, direct and indirect techniques used to measure NO will be examined, including among others, the measurement of NOS enzymatic activity, electron paramagnetic resonance (EPR) and NO-sensitive electrodes. Finally, tools that facilitate NO research, such as NOS inhibitors will be examined.*

For more information go to <http://www.regonline.co.uk/NO07>

### **Meeting Agenda**

- 09:00 – 09:45 **Registration - Tea/Coffee**
- 09:15 – 09:35 **Tour of the BioPark** by William Sprigings (Marketing Director) or Steve Read (General Manager)
- 09:45 – 10:00 **Introduction by the Chair** *Dr Nicholas Warrick*, University of Oxford
- 10:00 – 10:30 **Fluorescence based methods for the measurement of intracellular nitric oxide** *Prof. David Russell*, University of East Anglia, UK
- 10:30 – 11:00 **Quantification of blood and tissue NO metabolites by gas phase chemiluminescence: a guide to NO man's land** *Dr. Alexandra Milsom*, Wales Heart Research Institute, University of Cardiff, UK
- 11:00 – 11:30 **Morning Tea/Coffee and view posters**
- 11:30 – 12:00 **Radiochemical HPLC measurement of nitric oxide synthesis (NOS) activity in vascular tissue** *Dr Nicholas Warrick*, University of Oxford, UK
- 12:00 – 12:30 **EPR-based measurement of reactive nitrogen intermediates in human inflammatory diseases** *Prof. Paul Winyard*, Peninsula Medical School, Universities of Exeter and Plymouth, UK
- 12:30 – 13:00 **Nitric oxide sensors and their biomedical applications** *Dr. Xueji Zhang*, World Precision Instruments Inc, Sarasota, Florida, USA
- 13:00 – 14:00 **Lunch and Poster session**
- 14:00 – 14:30 **Understanding nitric oxide synthase inhibition: potency, selectivity and implications for their pharmacology** *Dr. Alan Wallace*, AstraZeneca, UK
- 14:30 – 15:00 **Endogenously occurring inhibitors of nitric oxide synthase** *Dr Caroline Smith*, University of Westminster, UK.
- 15:00 – 15:30 **Afternoon Tea/Coffee and last poster viewing**
- 15:30 – 16:00 **Evaluating endothelial function in humans: From bench to bedside** *Dr. Charalambos Antoniadis*, Athens, Greece (Talk to be confirmed)
- 16:00 – 16:15 **Nitric oxide synthase inhibition and renal injury** *Prof Sharma Prabhakar*, Texas Tech University Health Sciences Center Lubbock, TX, USA
- 16:15 – 17:00 **Abstract presentations**
- 17:00 – 17:15 **Chairman's summing up & close**
- 17:15 – 17:35 **\*2nd Tour of the BioPark for delegates**

\*Please note that a tour for exhibitors is scheduled for 2:15- 2:45



Deadline for abstract submissions is February 20th 2007. Abstract guidelines can be found at <http://www.euroscicon.com/absguidlines.html>  
Abstracts will be accepted for poster presentation only and will be published in the meeting proceedings

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