



**COST Action BM1005**  
**Gasotransmitters: from basic science to therapeutic applications**  
**(ENOG: European Network on Gasotransmitters)**

**3<sup>rd</sup> ENOG Workshop**  
**24<sup>th</sup>-25<sup>th</sup> October 2013**

**CEDOC (Chronic Disease Research Center)**  
**Faculdade de Ciências Médicas, Universidade Nova de Lisboa**

**Local Organizers: Drs. H. Vieira and C. Romão**

## **FINAL REVISED PROGRAM**

**October 24<sup>th</sup>**

09:00 – 9:10 Welcome

### **NO Session**

9:10 – 10:10 Brant Isakson (USA): “An (un)expected role for hemoglobin in the arterial wall”

10:10 -10:30 **ESR Lecture** Francisco Sanchez (ES) “NOX4-mediated sulfenation of redox sensitive phosphatases is produced during vascular endothelial Nitric Oxide Synthase activation by Laminar Shear Stress”

10:30 – 10:50 **ESR Lecture** Rayomand Khambata (UK) “Dietary nitrate reduces leukocyte activation and blood pressure in the apolipoprotein E knockout mouse”

10:50 – 11:10 **ESR Lecture** Kristen Bubb (UK) “PDE2 inhibition augments cGMP and cAMP signalling to ameliorate pulmonary hypertension”

11:10 – 11:30 Coffee Break

11:30 - 12:00 Antonio Martínez Ruiz (ES) “Role of ROS and NO in hypoxia signalling”

12:00 - 12:30 Astrid Schrammel (AT) “Endothelial dysfunction in murine adipose triglyceride lipase deficiency”

12:30 – 14:00 Lunch



## **Management Committee meeting**

**14:00 – 16:00 MC meeting**

16h:00 – 16:30 Coffee break

## **Other gases – O<sub>2</sub> and CO<sub>2</sub>**

16:30 – 17:15 David Hoogewijs (CH) “Cellular adaptation to hypoxia”

17:15 – 18:00 Cormac Taylor (IE) “Carbon Dioxide - a key gasotransmitter in inflammation”

## **Discussion Session: Gasotransmitters in the clinics**

18:00 – 18:30 Derek J Hausenloy (UK) “Nitric oxide in the clinical setting”

18:30 – 19:00 Gonçalo Cassiano Santos (PT) “Neonatal use of inhaled NO”

19:00 – 19:30 Questions and Answers

20:00 Dinner

## **October 25<sup>th</sup>**

### **CO Session**

9:00 – 10:00 Miguel Soares (PT) “The Gasotransmitter Carbon Monoxide Enforces The Physiologic Purpose of Inflammation”

10:00 – 10:30 Lúgia Saraiva (PT) “The bactericidal action of carbon monoxide releasing molecules”

10:30 - 11:00 Päivi Lakkisto (FI) “CO in myocardial injury”

11:00 – 11:30 Coffee Break

11:30 – 12:15 Fabio Zobi (CH) “Recent Developments of Vitamin B12 based CO and NO Releasing Molecules: Chemistry and Biological Evaluation”

12:15 – 12:45 Pradip Mascharak (USA) “Light-triggered CO delivery to biological targets”

12:45 – 14:00 Lunch

### **H<sub>2</sub>S Session**

14:00 – 14:45 Harry van Goor (NL) “Hydrogen sulfide: a novel therapeutic modality in various pathologic conditions”

14:45 – 15:15 Matej Podbregar (SI) “Total plasma sulfide as a marker of shock severity in nonsurgical adult patients”

15:15 – 15:45 Mariarosaria Bucci (IT) “Role of H<sub>2</sub>S in human malignant hyperthermia”



15:45 – 16:15 Coffee break

16:15 – 16:35 ESR Lecture Vasilis Kotsikoris (GR) "Influence of external stimuli on the expression of H<sub>2</sub>S-producing enzymes"

16:35 – 18:00 Closing comments & discussion



COST is supported  
by the EU Framework Programme



ESF provides the COST Office  
through a European Commission contract