

COST

WORKSHOP ON GASOTRANSMITTERS IN HEALTH AND DISEASE

Residencia de Estudiantes, Madrid, Spain

January 19-20, 2012



FINAL PROGRAM

January 19, 2012

9.00-9.10: Welcome

Session I H₂S in physiology and pathophysiology; crosstalk with NO

Chairman: Adrian Hobbs

9.10-9.40 Giuseppe Cirino "The role of H₂S in vessel function and its interplay with the NO signaling pathway"

9.40-10.00 Andreas Papapetropoulos "Angiogenic signaling of H₂S"

10.00-10.20 Matt Whiteman "Pharmacological potential of novel H₂S donors in inflammation"

10.20-10.40 Athanassios Giannis "New and efficient H₂S releasers: development and biological studies"

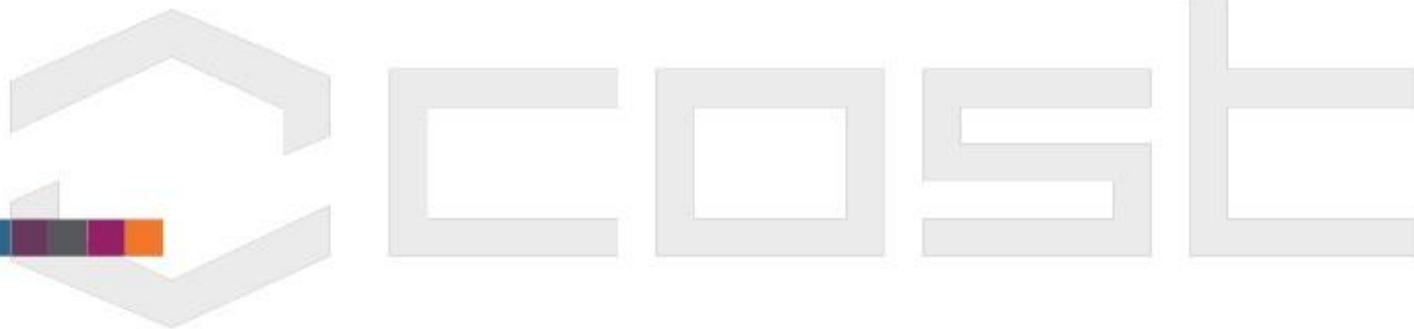
10.40-11.00 Karol Ondrias "H₂S induced NO release from nitroso-compounds"

Coffee break: 11.00-11.30

Session II: Nitrate signaling and functions

Chairman: Harald Schmidt

11.30-12.00 Adrian J Hobbs "Dietary nitrate reverses experimental pulmonary hypertension"



12.00-12.30 Bernd Mayer "Vascular bioactivation of nitroglycerin by cytosolic aldehyde dehydrogenase-2: Farewell address to mitochondria"

12.30-13.00 Paul Winyard "The interconvertibility of nitrate, nitrite and nitric oxide in healthy humans and in inflammatory disease."

Lunch: 13.00-14.00 h

Session III: Physiological roles of carbon monoxide and pharmacology of CO-releasing molecules

Chairman: Santiago Lamas

14.00-14.30 Jozef Dulak "Carbon monoxide as a modulator of stem cells functions and differentiation"

14.30-15.00 Roberto Motterlini "Carbon monoxide-releasing molecules: chemical reactivity and biological applications"

15.00-15.20 Helena Vieira "Preconditioning triggered by carbon monoxide: new strategies to prevent brain damage due to hypoxia-ischemia and reperfusion - in vitro evidences and in vivo applicability"

15.20-15.40 Ulrich Schatzschneider "PhotoCORMs: light-activation to control the biological activity of the gasotransmitter carbon monoxide"

15.40-16.00 Soenke Behrends "Heme oxygenases and the nitric oxide/cGMP pathway"

Coffee Break 16.00-16.15 h

16.15-19.30: Management committee meeting

January 20, 2012

Session IV: Nitric oxide/cGMP signaling in physiology and pathophysiology

Chairman: Roberto Motterlini

9.00-9.30 Peter Brouckaert "Target validation in the NO-sGC pathway using transgenic mice"



9.30-10.00 Romain Lefebvre "The gastrointestinal tract in apo-sGC mice: influence of soluble guanylate cyclase activators"

10.00-10.30 Peter Ferdinandy "Effect of hyperlipidemia on cardioprotective mechanisms: role of NO and peroxynitrite."

10.30-11.00 Ingrid Fleming "Consequences of eNOS tyrosine phosphorylation for endothelial cell homeostasis"

11.00-11.20 Martin Lauritzen "Nitric oxide as control mechanism in cerebral circulation"

11.20-11.30 Gunay Yetik "eNOS regulation in collar-induced early atherosclerosis in rabbits"

11.30-11.50 Santiago Lamas "The axis hydrogen peroxide-p38 MAPK-eNOS in endothelial laminar shear stress"

Coffee break: 11.50-12.15

Session V: Gasotransmitter-regulated pathways as therapeutic targets

Chairwoman: Ingrid Fleming

12.15-12.45 Harald Schmidt "NO signalling in disease and therapeutic answers"

12.45-13.05 Reinhard Schinzel " Effect of the NO-Synthase Inhibitor VAS203 on Cerebral Vascular Function and Brain Damage in Traumatic Brain Injury"

13.05-13.25 Djurić Dragan "The effects of homocysteine and related compounds on cardiac contractility, coronary flow and oxidative stress in isolated rat heart"

13.25-13.45 Finn Olav Levy "Different effects of NO and CNP on 5-HT₄-mediated inotropic effects of serotonin in the failing heart"

13.45-14.05 Olga Pechanova "The cross-talk of nitric oxide and nuclear factor kappaB in experimental hypertension".

14.05-15.00 h: Lunch

15.00-17.00 h General Discussion-Closing remarks