



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

3rd Working Group Meeting

May 1-2, 2014

Messina, Italia

Local Organizer: Prof. Salvatore Cuzzocrea

FINAL PROGRAM

MAY 1st

14.00-14.15 Chairman's welcome (Salvatore Cuzzocrea, Andreas Papapetropoulos)

Working Group 1: Production and signalling

Chair: Ingrid Fleming

14:15-14:45 Interactions of hydrogen sulfide with myeloperoxidase (Zoltán Pálinkás, HU)

14:45-15:15 H₂S oxidation in human liver mitochondria (Abou-Hamdan, FR)

15:15-15:45 Differences in compartmentation of cGMP signalling in cardiac myocytes (Lise Román Moltzau, NO)

15:45-16:15 Pathophysiological implications of microRNAs that regulate redox responses (Santiago Lamas, ES)

16:15-17:00: Chemical insight into S-sulfhydration (Milos Filipovic, DE)

17:00-17:30 Coffee break

Working Group 2 Modulation in disease



Chair: Matt Whiteman

17:30-18:00 Platelet function in hyperhomocysteinemia (Emma Mitidieri, IT)

18:00-18:30 HO-1: a gas generator and potential regulator of other gasotransmitters (Elias Lianos, EL)

18:30-19:00 Preeclampsia (Kim Holwarda, NL)

19:00-19:30 Nuclear translocation of HO-1 in chronic myelogenous leukemia (Soenke Behrends, DE)

19:30-20:00 The effect of aliskiren loaded nanoparticles on nitric oxide generation in experimental hypertension (Martina Cebova, SK)

20:00-20:30 H₂S and involvement of KV7 channels (Elise Røge Hedegaard, DK)

20.30-22.30 Dinner

MAY 2nd

08.00-9:00 Breakfast

9:00-11:30 **Management Committee Meeting**

Working Group 3 Chemistry & in vitro pharmacology

Chair: Pippo Cirino

11:30-12:00 Update on the pharmacology of novel H₂S donors (Matt Whiteman, UK)

12:00-12:30 Molsidomine, a drug for all seasons (Jaap Joles, NL)

12:30-13:00 Ru-based CORMs (Carlos Romao, PT)

13:00-13:30 Biological targets of CO-releasing molecules: from bacteria to mitochondria (Jayne Louise Wilson, FR)

13:30-14:00 Nitric oxide and injury-induced neurogenesis (Ines Araujo, PT)

14:00-14:30 Beneficial effects of Manganese (II) Pentaazamacrocyclic Superoxide Dismutase Mimic M40403 on Human Sperm Functionality (Vesna Otasevic, RS)

14:30-15:30 Lunch



Working Group 4 Therapeutic applications in disease

Chair: Peter Brouckaert

- 15.30-16:00 The NO-donor SNAP exerts cardioprotection against ischemia/reperfusion injury in human embryonic stem cell-derived cardiomyocytes (Janos Paloczi, HU)
- 16:00-16:30 ATB-346, a hydrogen sulfide-releasing cyclooxygenase inhibitor, enhances motor function after TBI in mice (Salvatore Cuzzocrea, IT)
- 16:30-17:00 Role of hydrogen sulfide in melanoma (Elisabetta Panza, IT)
- 17:00-17:30 XOX involvement in anti-thrombotic and anti-platelet effects of nitrites (Karol Kramkowski, PL)
- 17:30-18:00 Protective effect of exogenous nitrite in postoperative ileus (Sarah Cosyns, BE)
- 18:00-18:30 Nitroglycerin as a postconditioning agent (Ioanna Andreadou, EL)
- 18:30-19:00 Heme oxygenase-1 in rhabdomyosarcoma: can it be a therapeutic target (Alicja Józkwicz, PL)

Meeting closes



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