



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

2nd Working Group Meeting
11th-12th April 2013

Congress Centre of the SAS
Zamocka c. 18, 919 04 Smolenice, Slovakia

Local Organizer: Dr. Olga Pechánová

FINAL PROGRAM

April 11th

- 08.00-8.45 Breakfast
08.30-8.45 Chairman's welcome (Andreas Papapetropoulos)

Working Group 1 (Production & Signalling) presentations

Chair: Fleming

- 08.45-09.45 H₂S as a biological mediator (Csaba Szabo, USA)
09.45-10.05 Hydrogen peroxide as a redox signalling molecule: insights from shear-stress models (Santiago Lamas, Spain)
10.05-10.25 Adaptation of colonocytes to chronic H₂S exposure (Frederic Bouillaud, France)

10.25-10.45 Coffee break

Working Group 2 (Disease Processes) presentations

Chair: Schmidt

- 10.45-11.30 Targeted NO delivery: A New Phototherapy for Infections and Malignancies (Pradip Mascharak, USA)
11.30-11.50 ESR lecture: Role of sGC in COPD (Constatinos Glynos, Greece)
11.50--12.10 Carbon monoxide prevents neuronal apoptosis by modulating astrocytic metabolism - a non cell autonomous effect (Helena Vieira, Portugal)
12.10-12.30 The impact of dysregulation of the hydrogen sulfide producing enzyme cystathionine γ -lyase in preeclampsia (Keqing Wang, UK)



12.30-13.30 Lunch

Working Group 3 (Chemistry & In Vitro Pharmacology) presentations

Chair: Cirino

- 13.30-14.30 The Chemical Biology of the Small Molecule Signalling Agents (Jon Fukuto, USA)
- 14.30-14.50 Effects of H₂S-donors on membrane channels (Karol Ondrias, Slovakia)
- 14.50-15.10 Comparison of fluorescence detection methods for H₂S (Athanasios Giannis, Germany)
- 15.10-15.30 The complex pharmacology of slow release H₂S donors: vascular tone, inflammatory signalling, cytoprotection and cytostasis (Matt Whiteman, UK)
- 15.30-15.50 Decreased proliferation of human adipose derived stem cells by H₂S (Levente Kiss, Hungary)

15.50-16.10 Coffee break

Working Group 4 (Drug Discovery & In Vivo Pharmacology) presentations

Chair: Brouckaert

- 16.10-16.30 NO in sepsis: time to reverse the paradigm (Peter Brouckaert, Belgium)
- 16.30-16.50 Regulation of vascular tone by H₂S (Giuseppe Cirino, Italy)
- 16.50-17.10 Cardioprotective role of H₂S (Andreadou, Greece)
- 17.10-17.30 Is NO the king? Pathophysiological benefit with uncertain clinical impact (Fedor Simko, Slovakia)
- 17.30-17.50 Effect of ATB-346, a hydrogen sulphide-releasing derivative of naproxen, in the secondary injury associated with the experimental model of spinal cord trauma (Cuzzocrea, Italy)

17.50-20.30 Management Committee Meeting

20.30-22.00 Dinner

April 12th

Working Group Leader Presentations

08.00-09.00 Breakfast

09.00-09.45 **Working Group 1 Discussion (Ingrid Fleming, Germany)**

- Accomplishments and goals
- Outstanding questions and strategies to tackle them
- Membership status
- Common projects
- Joint funding applications
- STSMs: ongoing & anticipated

09.45-10.30 **Working Group 2 Discussion (Harald Schmidt, Netherlands)**

- Accomplishments and goals
- Outstanding questions and strategies to tackle them
- Membership status



- Common projects
- Joint funding applications
- STSMs: ongoing & anticipated

10.30-11.00 Coffee break

11.00-11.45 **Working Group 3 Discussion (Giuseppe Cirino, Italy)**

- Accomplishments and goals
- Outstanding questions and strategies to tackle them
- Membership status
- Common projects
- Joint funding applications
- STSMs: ongoing & anticipated. STSM presentation: Antibacterial activity of photoactivatable CO-releasing molecules, PhotoCORMs (Cristoph Nagel/Ulrich Schatzschneider, Germany)
- Progress with pharmacology (use of donors: problems and solutions)

11.45-12.30 **Working Group 4 Discussion (Peter Brouckaert, Belgium)**

- Accomplishments and goals
- Outstanding questions and strategies to tackle them
- Therapeutic and diagnostic areas where gasotransmitter therapies might be applied
- Membership status
- Common projects
- Joint funding applications
- STSMs: ongoing & anticipated

12.30-13.30 Lunch

Meeting closes

