

FIRST CONFERENCE OF THE SERIES



**COPERNICUS**  
DIALOGUES

**THE FOCUS OF  
POLISH-ITALIAN  
COOPERATION  
IN THE AREA OF  
BIOMEDICINE**



**27 OCTOBER 2023**  
**9:30 AM**

**POLISH ACADEMY OF SCIENCES  
SCIENTIFIC CENTER IN ROME  
VICOLO DORIA 2 | INTERNO 6**





# THE FOCUS OF POLISH-ITALIAN COOPERATION IN THE AREA OF BIOMEDICINE

## PROGRAMME

9:30 - 9:50

### Official welcome

Agnieszka Stefaniak-Hrycko

Director of the Polish Academy of Sciences - Scientific Center in Rome

Prof. Katarzyna Starowicz-Bubak

Maj Institute of Pharmacology Polish Academy of Sciences

Dr Giovanni Maga

National Research Council of Italy - Director of the Biological Sciences Department

9:50 - 10:30

### Beyond CB1: understanding the actions of anandamide in pain and nociception

Prof. Katarzyna Starowicz-Bubak

Department of Neurochemistry

Maj Institute of Pharmacology Polish Academy of Sciences

### The gut microbiome and its interactions with the expanded system of endocannabinoids and similar signaling lipids

Prof. Vincenzo di Marzo

Institute of Biomolecular Chemistry, National Research Council of Italy

Director of the Joint International Research Unit CERC-MEND

Laval University

10:30 - 11:10

### Dual piperidine-based histamine H3 and sigma-1 receptor ligands in the treatment of nociceptive and neuropathic pain

Dr Katarzyna Szczepańska

Department of Medicinal Chemistry

Maj Institute of Pharmacology Polish Academy of Sciences

### Design, synthesis, molecular modelling and biological evaluation of novel Sigma Receptors ligands with potent antiallodynic activity

Prof. Emanuele Amata

Department of Drug and Health Sciences

University of Catania

11:10 - 11:40

### On the Horizon (Europe): Health

Magdalena Dobrzyńska

R&I Policy Expert, Polish Science Contact Agency "PolSCA" of PAS in Brussels





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## PROGRAMME

**11:40-12:00**    **Coffee break**

**12:00-13:00**    **Italian-Polish crosstalk through bio-analysis**

Prof. Manuela Bartolini

Department of Pharmacy and Biotechnology

University of Bologna

**From drugs for central nervous system to Cannabis:  
a joint research story**

Prof. Giuseppe Cannazza

Department of Life Sciences

University of Modena and Reggio Emilia

Institute of Nanotechnology

National Research Council of Italy

**Collaborative research on molecular mechanisms of  
drug-receptor interactions**

Prof. Krzysztof Józwiak

Faculty of Pharmacy

Medical University of Lublin

**13:00-13:40**    **Exploring metabolic stability and ligand kinetics via in silico  
approaches**

Dr Sabina Podlewska

Department of Medicinal Chemistry

Maj Institute of Pharmacology Polish Academy of Sciences

**Developing of serotonin 5-HT<sub>7</sub> receptor ligands beyond high  
affinity: the binding kinetic profile and metabolic stability**

Prof. Marcello Leopoldo

Department of Pharmacy - Pharmaceutical Sciences

The University of Bari Aldo Moro

**13:40-14:40**    **Lunch**





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## PROGRAMME

- 14:40-15:20** **Role of cannabinoid receptors in the descending modulation of pain**  
Dr Francesca Guida  
Department of Experimental Medicine, Division of Pharmacology  
University of Campania Luigi Vanvitelli
- Inhibition of anandamide degradation reverses osteoarthritis-related hippocampal LTP and monoamine levels disruptions - the role of CB1 receptor**  
Dr Marta Kędziora  
Department of Neurochemistry  
Maj Institute of Pharmacology Polish Academy of Sciences
- 15:20-16:00** **Structure and function of protein corona on the dendrimer surface**  
Prof. Barbara Jachimska  
Jerzy Haber Institute of Catalysis and Surface Chemistry  
Polish Academy of Sciences
- Modulation of protein-nanoparticle interactions: specific buffer effects on BSA adsorption on mesoporous silica nanoparticles**  
Prof. Andrea Salis  
Department of Chemical and Geological Sciences  
University of Cagliari
- 16:00-16:40** **Boosting the resolution of inflammation as an innovative approach in the pharmacotherapy of brain diseases characterized by neuroinflammation**  
Prof. Enza Lacivita  
Department of Pharmacy - Pharmaceutical Sciences  
The University of Bari Aldo Moro
- Dr Ewa Trojan  
Department of Experimental Neuroendocrinology  
Maj Institute of Pharmacology Polish Academy of Sciences
- 16:40-17:00** **Closing remarks**

