



THIRD EDITION OF THE
COPERNICUS
DIALOGUES

POLISH-ITALIAN
WORKSHOP

**MOLECULES
OF THE FUTURE**

FOR DEVELOPMENT OF
OPTICAL BIOSENSORS FOR
MEDICINE, FOOD SAFETY
AND ENVIRONMENT



**24-25 November
2025**

CNR Central Library 'G. Marconi'
Piazzale Aldo Moro 7, Roma



Rome
Scientific Center



PROGRAMME

MONDAY 24.11.2025

14:30 - 15:00 Welcome and Introduction

Silvano Fares (CNR, Director of Department of Biology, Agriculture and Food Sciences)

Virginia Coda Nunziante (CNR, Head of International Relations Office)

Michelangelo Pascale (CNR, Director of Institute of Food Sciences)

Agnieszka Stefaniak-Hrycko (Director of the Polish Academy of Sciences Scientific Center in Rome)

Joanna Niedziółka-Jönsson (Representative of the Institute of Physical Chemistry of the Polish Academy of Sciences)

15:00 - 18:00 Scientific Talks

15:00 - 15:30 Prof. Joanna Niedziółka-Jönsson (Polish Academy of Sciences)
Plasmonic Particles and Surface Modification Biosensors

15:30 - 16:00 Dr. Sabato D'Auria (Consiglio Nazionale delle Ricerche)
New Biomolecules for the Design of Stable Biosensors for Analyses of Social Interest

16:00 - 16:30 Prof. Beata Wielgus-Kutrowska (University of Warsaw)
Novel Fluorescent Purine Analogues as Molecular Probes for Enzyme Mechanism Studies and Medical Diagnostics

16:30 - 16:45 Coffee Break

16:45 - 17:15 Dr. Stefano Toffanin (Consiglio Nazionale delle Ricerche)
Smart-Integrated Systems for Optical Biosensing based on Organic Optoelectronic Components

17:15 - 17:45 Dr. Aleksandra Helbik-Maciejewska (University of Gdańsk)
Designing, Using a Cyclic Peptide Derived from Frog Skin as a Lead Structure, Non-covalent Fluorescent Molecular Probes – A New Tool for Simultaneous Visualization and Inhibition of an Enzyme (matriptase-1) Involved in Tumorigenesis

17:45 - 18:15 Dr. Antonino Varriale (Consiglio Nazionale delle Ricerche)
Antibody-Based Biosensors for Analyses of Environmental Interest

18:15 Conclusions - Prof. Piotr Bojarski

PROGRAMME

TUESDAY 25.11.2025

10:00 - 12:30 Meeting for Defining a Proposal for a Bilateral Project between CNR and PAS

Participants:

Sabato D'Auria
Michelangelo Pascale
Antonio Varriale
Stefano Toffanin
Beata Wielgus-Kutrowska
Joanna Niedziółka-Jönsson
Katarzyna Szot-Karpińska
Aleksandra Helbik-Maciejewska
Piotr Bojarski
Aneta Lewkowicz
Krzysztof Rolka
Martyna Czarnomska
Emilia Gruszczyńska
Joanna Krasowska

12:30 Closing Lunch

Copernicus Dialogues Workshop

Molecules of the Future for Development of Optical Biosensors for Medicine, Food Safety and Environment

24-25 November 2025

Organising Committee:

Virginia Coda Nunziante
Sabato D'Auria
Salvatore Di Napoli
Piotr Bojarski
Beata Wielgus-Kutrowska
Agnieszka Stefaniak-Hrycko
Małgorzata Maria Fijał
Katarzyna Ellert