

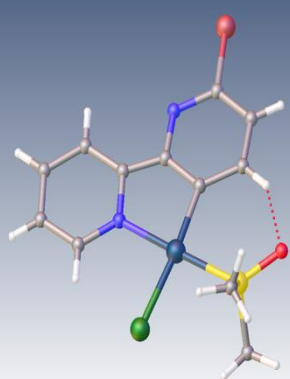
FINAL WORKSHOP PROJECT PRIN PNRR P2022PZ8JE

APPLICATION OF NOBLE METAL COMPLEXES WITH NITROGEN LIGANDS AS ANTIMICROBIALS: RESULTS AND PERSPECTIVES

23 FEBRUARY 2026, 9:30 – 12:30

“Aula Consiliare” - Didactic Building - Via Vienna 2, Sassari

Department of Chemical, Physical, Mathematical and Natural Sciences, University of Sassari



The project arises from the need to tackle the threat of antimicrobial resistance, one of the most pressing public health problems worldwide. The research program is focused on the **design and synthesis of new inorganic and organometallic complexes of noble metals as promising novel antimicrobial drugs.**

The final workshop is part of the communication and dissemination activities of the project and reports the results regarding the synthesis of new ligands, complexes and their biological activity.



Chairs:

Prof. Antonio Zucca, UNISS, Principal investigator zucca@uniss.it

Dott.ssa Alessandra Scano, UNICA Research unit responsible alessandra.scano77@unica.it

Dott. Maurizio Solinas CNR-ICB Research unit responsible maurizio.solinas@cnr.it

Research units involved in the project:

- The Sassari CNR-ICB Unit - CNR-ORG (organic synthesis)
- The Sassari University Unit - UNISS-INORG (synthesis of complexes)
- The Cagliari University Unit - UNICA-BIO (antimicrobial activity and toxicity)

Program

9:30 Welcome and Opening: Prof. Lidia De Luca, Director of the Department
Prof. Antonio Zucca, P.I. of the Project

Speakers:

- **Prof. Germano Orrù - University of Cagliari**
New antimicrobials for emerging pathogens in the clinical field
- **Prof. Antonio Zucca - University of Sassari**
Design and synthesis of noble metal complexes: a novel class of antimicrobials
- **Prof. Maria I. Pilo - University of Sassari**
Molecular electrochemistry: metal complexes with biological activity
- **Prof. Sergio Stoccoro - University of Sassari**
Synthesis and characterization of Pd(II) and Pt(II) complexes with 1,3-bis(2-pyridyl)imidazo[1,5-*a*]pyridine
- **Prof. Pierpaolo Coni**
Epigenetics and Cellular Communication System
- **Prof. Giuseppina Pichiri - University of Cagliari**
Evaluation of antitumor activity of noble metal complexes with pyridine-derived ligands
- **Dr. Alessandra Scano - University of Cagliari**
Evaluation of antimicrobial activity of noble metal complexes with pyridine-derived ligands

Round Table – concluding remarks and perspectives

A. Zucca, A. Scano, M. Solinas, G. Orrù, M.I. Pilo, S. Stoccoro, G. Pichiri, D. Giunta, P. Coni.