



Programme

5th February 2026

Aula Magna, via della Beverara, 123/1, Bologna

9:00 – 9:30 Welcome and Introduction

Marco Carricato – Delegate for PhD Programme Degree

Maria Letizia Focarete – Dept. Chemistry “Giacomo Ciamician”, Director

Cristina Puzzarini – PhD Programme in Chemistry, Coordinator

9:30 – 9:45 Nicolò Albanelli

A Progressive Design Strategy for Solid-State Electrolytes in Lithium Metal Batteries

9:46 – 10:01 Maria Vittoria Balli

Supramolecular Tuning of Electrochemiluminescence: From Mechanism to Next-Generation Diagnostics

10:02 – 10:17 Filippo Baroncelli

Expanding the Frontiers of Chirped-Pulse Fourier-Transform Microwave Spectroscopy: Structural and Analytical Applications

10:18 – 10:33 Caterina Bellatreccia

Copper Indium Sulfide Quantum Dots Enabling Quantitative Visible Light Photoisomerisation of (E)-Azobenzene Dyes

10:34 – 10:49 Andrea Brunetti

Electrochemical Synthesis/Functionalization of 2-Oxabicyclo[2.1.1]hexanes by Anodic Oxidation-Cyclization Relay Strategy

10:50 – 11:50 Coffee break and Poster Session

11:50 – 12:05 Valentina Camagni

From Epitope Targeting to Pattern Recognition: New Bio-Sensing Approaches for Sex Attribution in Archaeology





12:06 – 12:21 **Manuele Di Sante**

Development of Nanobioconjugates for Phototheranostics: from Anticancer Photodynamic Therapy to Regenerative Medicine

12:22 – 12:37 **Luana Di Lisa**

Engineering bioinks for 3D bioprinting of human tissue models as alternatives to in vivo testing

12:38 – 12:53 **Alessandro Fracassa**

Redox Catalysis in Bead-based Electrochemiluminescence

12:54 – 13:09 **Luigi Gamberini**

Development of covalent adaptable networks (CANs) for sustainable materials

13:10 – 14:30 **Lunch and Poster Session**

14:30 – 14:45 **Nicholas Kassouf**

Chemometric Applications for Innovative Analytical Methods in Food, Environmental, and Pharmaceutical Analysis

14:46 – 15:01 **Andrea Maggio**

Exploration of Conformational Landscapes and Large Amplitude Motions in Molecules and Molecular Clusters: a Rotational Spectroscopy Approach

15:02 – 15:17 **Alessia Marconi**

Protein-Based Drug Delivery Systems for Next-Generation Cancer Treatments

15:18 – 15:33 **Chiara Mariani**

Spatio-Temporal Electrochemiluminescence Dynamics for Engineering High-Efficiency Biosensors

15:34 – 15:49 **Dario Mordini**

Melanin and Light: Synthesis, Characterization and Application of Photoactive Biomimetic Pigments

15:50 – 16:05 **Faisal Nazir**

AI-Enhanced Bioluminescent Paper Biosensor for Quantitative Water Toxicity Monitoring

16:06 – 16:21 **Alessia Pollice**

Multi-Component Catalyst-Interface Engineering for Alcohol-Selective CO₂RR with Photoassisted OER





16:22 – 16:50 **Coffee Break**

16:50 – 17:05 **Leonardo Rapisarda**

Design and Engineering of Backbone-Modified Nucleic Acid Therapeutics

17:06 – 17:21 **Silvia Rizzo**

Sustainable Catalysis in API Synthesis: From Suzuki–Miyaura Coupling to Enzymatic Peptide Ligation

17:22 – 17:37 **Elham Sattarinezhad**

Exploring the Mechanism of Protochlorophyllide to Chlorophyllide Conversion

17:38 – 18:30 **Committee Evaluation**

18:30 – 19:00 **Award Ceremony**

To ensure we stay on schedule, we kindly ask all speakers to upload their presentations to the session room's computer before each session begins.

Thank you for your cooperation.

