



# Programme

5<sup>th</sup> 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*

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

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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 CO<sub>2</sub>RR with Photoassisted OER*



16:22 – 16:50 **Coffee Break**

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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*

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

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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.*

