

THIRD-YEAR MEETING

MUR Excellence Program 2023-2027

eXpanding CHEMistry
implementing excellence in research and teaching

Aula Gismondi
December 18th 2025, h 14:30

h 14:30: Seminar of Prof. Graca Vicente
Louisiana State University - USA

***“Synthesis and Functionalization of Hydrazine-
inserted BODIPY Derivatives”***

h 16:00: PhD Students Poster Session

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Poster Session

1. *Ni-Doping Strategies for Composite Fuel Electrodes of Solid Oxide Fuel Cells* - **Michela Cornale**
2. *Dense electrolytes fabrication and innovative deposition technique for integration in Proton Conducting Fuel Cells* - **Lorenzo Freschi**
3. *One-Pot Synthesis of LaNiO₃ for Enhanced Oxygen Evolution Reaction Activity in Alkaline Media* - **Pagano Giorgio**
4. *Ir-modified NiFe alloys for the Oxygen Evolution Reaction Electrocatalysis in Acidic and Alkaline media* - **Manuela Montalto**
5. *Antibacterial activity and electrochemical detection of Essential Oils* - **Elisa Recchia**
6. *Controlled Microfluidic Synthesis of Cerium Oxide Nanoparticles* - **Beatrice Bruno**
7. *Theoretical and experimental analysis of solar fuels production processes coupled with CSP technology* - **Matteo Battaglia**
8. *Evaluating Force-Field Refinements in RNA Molecular Dynamics: A Comparative Analysis of OL3 and CMAP Corrections in the HuR–Aptamer Complex* - **Fabio Giovanni Tucci**
9. *Point-of-care diagnosis of orthopedic infections through a scalable and highly-sensitive printed pH sensor based on Carbon Black/Polyaniline nanocomposite* - **Christian Gosti**
10. *Preliminary characterization of a novel ruthenium dye-helical peptide conjugated system for DSSC enhanced performance* - **Valerio Cuboni**
11. *Targeting HuR: Exploring RNA Aptamers as a Novel Therapeutic Strategy* - **Davide Pietrafesa**
12. *Optimization of Self-Healing and Anticorrosive Properties of Waterborne Polyurethane Coatings for the Protection of Metallic Artworks* - **Elodia Spinelli**
13. *Integrating paper-based (bio)sensors in a novel Origami Organ-on-a-Chip Device: PHOENIX-Oo* - **Laura Belcastro**