



PhD in Chemistry

Summer Workshop 2025

Trieste, 18 – 20 June, Aula A1 building C11

program

Wednesday 18 June, Cycle 38 (25 min) and Cycle 39 (20 min)

The session from 17:30 to 18:30 on 18 June will be closed to the public due to a non disclosure agreement with the companies involved in the project.

	14.00 Opening
	Chair: Beatrice Perissutti
1	14.10-14.30 Francesco Mancuso: Hybrid Materials for Enhanced CO ₂ Electroreduction on Silver and
	Copper Catalysts
1	14.30-14.55 Davide Marin: Towards supramolecular nanocomposites for nervous tissue
	regeneration
2	14.55-15.20 Leonardo Biancorosso: Photoinduced electron dynamics in molecules and composite
	systems
3	15.20-15.45 Marco De Conto: Insights into protein structures to fight bacterial infections
4	15.45-16.10 Erica Galvagno: Design of a multifunctional coating based on ultra-small cerium oxide
	nanoparticles for complex surface protection
	Coffee break 16.10-16.45
	Chair: Enzo Alessio
	16:45-17.30 Lecture 1 Zsolt Baranyai – Bracco Imaging SpA
	Exploring thermodynamic and kinetic attributes for the design of metal chelates to the application
	as MRI contrast agents
2	17.30-17.50 Elena Tamburello: CLOSED DOORS Design, synthesis and study of innovative
	compounds as foods for medical purposes
3	17.50-18.10 Ranganath Akshay: CLOSED DOORS Biobased and organic materials for decaffeination
	process
4	18.10-18.30 Momenpour Surchani Mandana: CLOSED DOORS Materials from natural products for
	the decaffeination process

Thursday 19 June, Cycle 38 (25 min) and Cycle 39 (20 min) and Cycle 40 (15 min)

	Chair: Elisa Moretti
5	9.20-9.40 Merve Kazanci: Untargeted LC-HRMS Analysis of Urban Wastewater:
	Treatment Effect on Chemical Composition
6	9.40-10.00 Carlo Andreazza: High Temperature Pyrolysis as a Tool for Energy
	Recovery: Waste from a Furniture Manufacturing Industry Case Study
7	10.00-10.20 Tommaso Clementini: Towards NIR emitting gold clusters and
	nanoparticles protected with amphiphilic fluorinated ligands
8	10.20-10.40 Simone Pistillo: Core Electron Spectroscopies: powerful tools for the
	Analysis and Characterization of Complex Systems
	Coffee break 10.40-11.15
	Chair: Michele Melchionna
	11.15-12.00 Lecture 2 Alessandro Porchetta – Università di Roma 2 Tor Vergata -
	CRISPR-based systems controlled by DNA molecular devices for sensing
	applications
9	12.00-12.20 Paola Alletto: Multicomponent self-assembled hydrogels for enzyme
	mimicry
10	12.20-12.40 Beatrice Rosetti: Spatial programming of chemical output
	directionality within patterned enzymatically active prototissue
	Lunch break 12.40-14.15
	Chair: Paola Storici
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Friday 20 June, Cycle 40 (15 min)

	Chair: Emanuele Coccia
5	9.15-9.30 Christian Mucignato: Re-evaluating Rhenium(I) Tricarbonyl
	Complexes in CO2 reduction and their potential use in tandem carbonylation
	reactions
6	9.30-9.45 Chiara Pizzo: Flexpole: the research of flexible molecular crystals
	with embedded permanent electrical fields
7	9.45-10.00 Rilinda Plakaj: Theoretical Design of Optoelectronic Properties in
	TM-Doped Au Nanoalloys
	Coffee break 10.00-10.35
	Chair: Mauro Stener
	10.35-11.20 Lecture 4 Enrico Bodo – Università di Roma La Sapienza
	Beyond the Usual: Less Conventional Strategies in Molecular Dynamics with
	Polarization, MonteCarlo and Machine Learning
8	11:20-11.35 Alessandro Raffa: First approaches to the synthesis of
	bioconjugates between JQ1 and some senolytic compounds
9	11:35-11.50 Cyril Tsopmedjio Namba Nzanguim: Exploring the impact of
	AI/ML in the drug discovery process. Case study: sigma receptors
10	11:50-12.05 Elisa Visentin: The valorization of cornelian cherry (Cornus mas)
	and other typical plants of north-eastern Italy in the cosmetic, nutritional and
	veterinary fields
	12:05 Concluding Remarks