UNIVERSITÀ DEGLI STUDI DI TRIESTE

Università Ca'Foscari Venezia

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
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
	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)

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
	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
5	14.15-14.40 **Ileana Merdžo**: The versatility of macrocycles: two different approaches towards metal-based radiopharmaceuticals
6	14.40-15:05 **Giulia Da Pian:** CO_2 valorization for sustainable fuels production
7	15.05-15.30 **Letizia Trevisan:** Exploring the pyrazine scaffold to develop inhibitors towards Casein Kinase 1δ
1	15.30-15.45 **Francesca Argentieri:** Towards Chiroptical Characterization of (S)-DFB-PhEt-amide: TDDFT Insights from Ground to Excited State
2	15.45-16:00 **Ludovica Battaiotto:** Cocrystal engineering of drugs with polymeric molecules
	Coffee break 16:00-16.35
	16.35-17.20 Lecture 3 Gianluca Papeo - Nerviano Medical Sciences - Submarine Adventures: History of Hymenialdisine
3	17.20-17.35 **Navneet Jhariya:** Kinetic Investigation of Formate Dehydrogenase and Development of Functional Polyoxometalate Coacervate Vesicles
4	17.35-17.50 **Andrea Minin:** Passive cooling system of solar cells

Friday 20 June, Cycle 40 (15 min)

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
	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