Programme of the Symposium

14:00	14:45	**Opening Session**	Opening speech	
			Chair: Michele Casoria, Patrick S. Sfragano	
14:45	15:05	OR01	Giulia Mugnaini	Chemically cross-linked gelatin hydrogels: glutaraldehyde and glyceraldehyde effect on structural, diffusional, and mechanical properties
15:05	15:25	OR02	Letizia Pontoriero	Disentangling the complexity of modular proteins through advanced NMR spectroscopy: preliminary characterization of the full-length Nucleocapsid protein from SARS-CoV 2
15:25	15:45	OR03	Jacopo Cardellini	The nano-bio interface as a platform for technological applications
15:45	15:58	OR04	Sara Calandra	Optimization of the binder selection protocol for radiocarbon dating of historical mortars
15:58	16:30		**Coffee Break & Poster Session**	
16:30	16:50	IS 01	Giacomo Becheri, PQE Group	My journey from physical chemistry at Unifi to Manager at PQE Group
16:50	17:03	OR05	Gavino Bassu	Fast and Bacterious: motility drift from super to sub-diffusion behavior
17:03	17:16	OR06	Lorenzo Baldini	Divergent synthesis and chemoinformatic studies of natural product-derived small molecules for biomedical application
17:16	17:26	OR07	Michael Quagliata	Glucopeptides derived from myelin-relevant proteins and hyperglucosylated non-typeable Haemophilus influenzae bacterial adhesin cross-react with multiple sclerosis specific antibodies
17:26	17:36	OR08	Francesca Buco	Gold Nanoparticles as Scaffolds for the Multimerization of Iminosugars: New Multivalent Modulators of the Enzyme GCase
17:36	17:46	OR09	Fernando Soto Bustamante	Optimizing the structure of sustainable hydrogels for nano/microfiltration, selective absorption, and anti-biofouling behavior
17:46	17:56	OR10	Chiara Sarti	Wastewater as a source of emerging micropollutants: occurrence, removal, and future perspectives
18:00	18:15		**End of the 1st Session**	

Chair: Francesca Buco, Lapo Renai

9:00	9:20	OR11	Arianna Balestri	Amphiphilic block copolymers as versatile tools for the design of smart lipid assemblies
9:20	9:40	OR12	Jacopo Tricomi	Rational design, synthesis and pharmacological evaluation of a new generation of β-adrenergic receptors (β-ARs) ligands
9:40	10:00	OR13	Gina Elena Giacomazzo	Ruthenium (II) polypyridyl complexes: versatile tools in the design of light-responsive therapeutic agents
10:00	10:13	OR14	Michela Lupi	Synthesis of enantioenriched hetero[4]- and [5]helicenes through Lewis Base catalysis
10:13	10:26	OR15	Andrea Comparini	Electroplating on Al6082 aluminium: a new green and sustain-able approach
10:26	10:46	IS 02	Marynka Ulaszweska, ThermoFisher	Metabolomics data elaboration: from Features to Compounds
10:50	11:20			**Coffee Break & Poster Session**
11:20	11:40	OR16	Martina Vizza	Electrodeposition and modification of interesting catalytic and technological surfaces
11:40	11:50	OR17	Alice Cappitti	Biomass valorization towards new high-performance biopolymers
11:50	12:00	OR18	Laura Vespignani	Study of new materials with low environmental impact and their use in the protection of wooden artifacts
12:00	12:10	OR19	Sara Aquilia	Development of renewable materials based on proteins and peptides from vegetable sources
12:10	12:20	OR20	Daniela Porcu	Spectroscopic and morphologic investigation of Bronze Disease in Cultural Heritage
12:20	12:30	OR21	Lorenzo Pacini	Optimization of critical parameters to obtain difficult peptide sequences using induction-heat energy on solid phase peptide synthesizer PurePep® Chorus
12:30	12:40	OR22	Alessandro Veneri	Development of flexible molecular and inorganic hybrid solar cells: materials for a sustainable future
12:40	12:50	OR23	Andrea Dali	The role of the propionate interactions in the Listeria monocytogenes coproporphyrin ferrochelatase bound to its physiological substrate
12:50	13:50			**Lunch Break**

Chair: Chiara Sarti, Michelangelo Fichera

13:50	14:10	OR24	Giacomo Lucchesi	Synthesis and characterization of a new lead-free perovskite solar cell

14:10	14:30	OR25	Maria Giulia Davighi	Stimuli responsive inhibitors and pharmacological chaperones for Gaucher disease
14:30	14:50	OR26	Debora Pratesi	Synthesis of N-glycomimetics from low cost and recycled saccharides
14:50	15:10	OR27	Lapo Renai	Development and application of instrumental LC-MS/MS analytical platforms and chemometric data treatment for the study of complex matrices in the environmental and nutritional fields
15:10	15:23	OR28	Simi Maria Emilia Mangani	Archaeometric study of Montelupo Maiolica: a critical analysis of the non-invasive approach chosen
15:23	15:36	OR29	Francesca Porpora	Development of a methodology for characterization and treatment of triacetate cellulose media of historical and artistic interest with a focus on those affected by «vinegar syndrome»
15:40	15:55			**Coffee Break**
15:55	16:05	OR30	Serena Benedetta Cabigliera	Microfibers (MFs): the key to framing the problem and developing systems for their mitigation
16:05	16:15	OR31	Marco Bonechi	Electrochemical characterization of molecular properties and modified surfaces for energy and technological applications
16:15	16:30			**End of the 2nd Session**

Friday, 27/01/2023

9:00	9:30		Prof. Giulietta Smulevich	**January 27 · International Holocaust Remembrance Day**

Chair: Michael Quagliata, Davide Ranieri

9:30	9:50	OR32	Giammarco Maria Romano	Polyamine-based fluorescent receptors for Emerging Pollutants
9:50	10:10	OR33	Lorenzo Briccolani Bandini	Effects of xc-functional choice on the characterization of a reaction mechanism
10:10	10:30	OR34	Agnieszka Staśkiewicz	The role of helical structure in a series of Myelin Basic Protein peptides for antibody recognition in Multiple Sclerosis
10:30	10:43	OR35	Kristian Vasa	Synthesis of Peptide and Protein Drug-Conjugates for Targeted Therapy
10:43	10:56	OR36	Valentina Vitali	Effects of protonated and deuterated environment: towards a detailed distance distribution analysis
10:56	11:26	IS 03	Riccardo Deidda, Janssen	What's next after a PhD? My journey from academia to the pharmaceutical industry
11:26	11:46			**Coffee Break & Poster Session**

11:46	11:59	OR37	Saul Santini	Development of analytical procedures for the determination of emerging organic compounds in environmental matrices
11:59	12:09	OR38	Lorenzo Bracaglia	13C detected NMR spectroscopy applications for the study of multidomain proteins
12:09	12:19	OR39	Margherita Verrucchi	Electrochemical methods to quantify the content of organic additives in complex metrices of copper plating baths
12:19	12:29	OR40	Lucrezia Cosottini	HuHf-Gold(I) compounds bioconjugates
12:29	12:39	OR41	Mert Acar	Smart Autonomous Responsive Materials
12:39	12:49	OR42	Michelangelo Fichera	Production of carbonaceous materials through thermoconversion of sewage sludge, their activation and characterization for application in wastewater depuration
12:49	12:59	OR43	Yschtar Tecla Simonini Steiner	Recognition of emerging pollutants (EPs) with artificial fluorescence chemical sensors: a supramolecular approach
12:59	13:09	OR44	Michele Casoria	Improved Fluorinated Alcohol Force Fields for Molecular Dynamics Simulations of Peptides and Proteins in Biomimetic Media
13:10	14:20			**Lunch Break**

Chair: Saul Santini, Yschtar Tecla Simonini Steiner

14:20	14:40	OR45	Stefano Martinuzzi	A Comparative Research on Corrosion Behavior of Electroplated and PVD Chromium Coatings
14:40	15:00	OR46	Mariagrazia Lettieri	Optical-based bioanalytical assays for drugs quality control and diagnostic applications
15:00	15:20	OR47	Gheorghe Melinte	Electrochemical platforms for allergens aptasensing
15:20	15:33	OR48	Davide Ranieri	Paramagnetic Porphyrin Dimers: New Building Blocks for the Development of two Qubit Quantum Gates
15:33	15:49	OR49	Patrick Severin Sfragano	Sewage sludge-derived biochar to design more sustainable electrochemical sensors
15:50	16:05			**Coffee Break**
16:05	16:15	OR50	Alessandro Gerace	Synthesis of new materials to develop innovative permanent magnets: hard/soft coupling
16:15	16:25	OR51	Riccardo Spena	Design and fabrication of micro- and milli- fluidic chip for the development of green industrial formulations
16:25	17:00	**Closing Session**	PhD Coordinator, Prof. Marco Pagliai, Organizing Committee, Awards	
17:30			**Social Event at CUS Bar**	