



**XLIX CONGRESSO NAZIONALE  
DI CHIMICA INORGANICA**  
PERUGIA 12-15 SETTEMBRE

**INORRG2023**

**FULL PROGRAMME**

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# ***Welcome!***

It is a great honour and pleasure for us to welcome you in Perugia at the XLIX Italian Conference of Inorganic Chemistry (September 12-15, 2023).

The congress will showcase Plenary and Keynote lectures from renowned international scientists, as well as oral presentations and poster sessions, spanning topics ranging from compounds to extended materials, with a particular focus on how advances in Inorganic Chemistry, from synthesis to characterization to computation, provide a key launch platform for innovations in real world applications. Subtopics will include coordination & supramolecular chemistry, organometallic chemistry & catalysis, magnetochemistry, energy & photochemistry, green & bioinorganic chemistry, inorganic materials & nanoparticles, medicinal chemistry, and theoretical inorganic chemistry.

Sharing ideas across the very broad spectrum of Inorganic Chemistry field, hopefully enabling the formation of new collaborations and networking in the emerging areas of research, is the main aim of the conference.

Located in the center of Italy, Perugia and its unique atmosphere will provide inspiration for a fruitful scientific meeting and the participants will have time to enjoy culture and historical places in the city.

We wish you a pleasant and fruitful time in Perugia!

**The Organizing Committee**

## **Scientific Committee**

Steering Committee of the Inorganic Chemistry Division

Mario Chiesa (University of Torino)  
Francesco Paolo Fanizzi (University of Salento)  
Cristina Femoni (University of Bologna)  
Silvia Gross (University of Padova)  
Andrea Ienco (ICCOM - CNR)  
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Alceo Macchioni (President - University of Perugia)  
Tiziana Marino (University of Calabria)  
Barbara Milani (University of Trieste)  
Francesco Ruffo (University of Napoli Federico II)

## **Organizing Committee**

University of Perugia

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Andrea Lombardi	Gabriel Menendez Rodriguez
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Vieri Fusi (University of Urbino)  
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Claudio Pettinari (University of Camerino)  
Nazzareno Re (University of Chieti - Pescara)  
Antonella Ricci (University of Teramo)

# SCIENTIFIC PROGRAMME

Tuesday 12 September 2023

12:00 - 14:30	<b>Registration – Sala dei Notari</b>	
14:30 - 14:45	<b>Opening Ceremony – Sala dei Notari</b>	
14:45 - 15:35	<b>PL1 Sacconi Medal 2023 – Silvio Aime</b> University of Torino <i>Metal Complexes for Magnetic Resonance Imaging</i> Chair Maurizio Peruzzini	
15:35 - 16:05	<b>KL1 – Paola Ceroni</b> University of Bologna <i>Luminescent Nanocrystals as Light-Harvesting Antennae and Photocatalysts</i> Chair Maurizio Peruzzini	
16:05 - 16:30	<b>Coffee Break</b>	
	<b>Session 1 – Sala dei Notari</b> Chair Francesco Ruffo	<b>Session 2 – Aula Magna FISSUF</b> Chair Cristina Femoni
16:30 - 16:50	<b>Ad hoc O1A – Andrea Biffis</b> University of Padova <i>Tailored Synthesis of Mixed-Ligand Molecular Gold Nanoclusters</i>	<b>Ad hoc O1B – Flavia Artizzu</b> University of Piemonte Orientale <i>Lanthanide-Based Near-Infrared and Multicolor Emitters for Photonic Integrated Circuits and Quantum Optics</i>
16:50 - 17:05	<b>OC1A – Lorenzo Luciani</b> University of Camerino <i>Metal Substitution and Aggregation of Coinage Metals Cyclic Trinuclear Compounds, Driven by Neat Metallophilicity</i>	<b>OC1B – Fortuna Ponte</b> University of Calabria <i>A Novel Ru(II)-Based Compound Active in PACT Cancer Therapy: Theoretical Study of the Mechanism of Action and of The Photophysical Properties</i>
17:05 - 17:20	<b>OC2A – Chiara Saviozzi</b> University of Pisa <i>New Triiron Complexes via Incorporation of Isocyanoferrrocene in a Diiron Scaffold</i>	<b>OC2B – Francesca Tajoli</b> University of Padova <i>Effective Control of Crystallization of Inorganic Systems by Spatial Confinement</i>
17:20 - 17:35	<b>OC3A – Claudio Garino</b> University of Torino <i>Coordination Equilibria in Homoleptic Copper(I) Complexes</i>	<b>OC3B – Francesco Barbero</b> University of Torino <i>Synthesis of Sub-100nm Carbon Nanoparticles With a Fine-Tuning of the Size, Antioxidant and Photothermal Properties</i>
17:35 - 17:50	<b>OC4A – Giacomo Drius</b> University of Bologna <i>Synthesis and Biological Investigations on Ruthenium Complexes Bearing Pyrrole Derivatives</i>	<b>OC4B – Silvia Sfamini</b> University of Messina <i>Design and Development of Sustainable Nanotechnological Protective Hybrid Materials in Surface Protection Treatment</i>

17:50 - 18:05	<p><b>OC5A – Luca Rigamonti</b> University of Modena e Reggio Emilia <i>Iron(III) Clusters with “Short” Schiff Base Ligands</i></p>	<p><b>OC5B – Anna Pintus</b> University of Cagliari <i>Diimine-Dithiolate Platinum Complexes for ICT Applications: Case Studies on Third-Order Nonlinear Optical Properties and Photoconductivity</i></p>
18:05 - 18:20	<p><b>OC6A – Gioele Colombo</b> University of Insubria <i>4-Nitrosopyrazolate Silver(I) Coordination Compounds: Oligomeric Structures Held by Argentophilic Interaction</i></p>	<p><b>OC6B – Sara Cerra</b> University of Roma La Sapienza <i>Designing Gold-Based Nanomaterials for Optoelectronics: the Role of Surface Ligands</i></p>
18:20 - 18:35	<p><b>OC7A – Martina Landrini</b> University of Perugia <i>Tweaking the Bridge in Metallocene Zr(IV)/W(IV) Bimetallic Hydrides</i></p>	<p><b>OC7B – Francesco Giannici</b> University of Palermo <i>Interface Diffusion and Compatibility of Perovskite Electrodes in Contact with Sofc/Soec Electrolytes</i></p>
18:35 - 18:50	<p><b>OC8A – Noemi Pagliaricci</b> University of Camerino <i>Expanding the Biological Potentials of Curcumin Analogues as Ligands for Ru(II) and Os(II) Half-Sandwich Complexes</i></p>	<p><b>OC8B – Mariagrazia Fortino</b> University of Catanzaro <i>Atomistic Modeling of Chiral Lead- and Tin-Perovskites</i></p>
	<b>Sala dei Notari</b>	
19:00 - 19:30	<p><b>KL2 – Antonio Sgamellotti</b> Accademia Nazionale dei Lincei <i>Science and Art: Knowledge and Conservation</i> Chair Claudio Pettinari</p>	
20:00 - 21:00	<b>Welcome Party</b>	

### Wednesday 13 September 2023

	<b>Sala dei Notari</b>	
8:30 - 9:20	<p><b>PL2 – Eva Rentschler</b> Johannes Gutenberg University <i>Metallacrown Complexes: Host-Guest Interaction Paving the Way for SMMs</i> Chair Silvia Gross</p>	
9:20 - 9:50	<p><b>KL3 – Luciano Marchiò</b> University of Parma <i>Structural Diversity of Lanthanide Complexes. Is it Helpful for their Separation and Recovery?</i> Chair Silvia Gross</p>	
9:50 - 10:15	<b>Coffee Break</b>	
	<p><b>Session 3 – Sala dei Notari</b> Chair Morena Nocchetti</p>	<p><b>Session 4 – Aula Magna FISSUF</b> Chair Mauro Botta</p>
10:15 - 10:35	<p><b>Ad hoc O2A – Rita Mazzoni</b> University of Bologna <i>Ruthenium Bifunctional Based Catalytic Systems to Tune Efficiency and Selectivity in Alcohol Homologation</i></p>	<p><b>Ad hoc O2B – Simone Dell'Acqua</b> University of Pavia <i>Interaction between Hemin and Neuronal Peptides Relevant to Neurodegenerative Diseases and Bioinspiration for ROS Regulation</i></p>

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10:35 - 10:50	<p><b>OC9A – Alessandro Caselli</b> University of Milano <i>Synthesis and Characterization of [Iron(III)(Pyclen)] as Catalysts for Oxygen Atom Transfer (OAT) and Hydrogen Atom Transfer (HAT) Reactions</i></p>	<p><b>OC9B – Sara La Manna</b> University of Napoli Federico II <i>Role of Transition Metal Complexes in Modulating Amyloid Aggregation in Neurodegenerative Diseases</i></p>
10:50 - 11:05	<p><b>OC10A – Benjamin Fener</b> Friedrich-Schiller-University Jena <i>S-Block Metal-Catalyzed Hydrophosphorylation of Alkynes – From Basic Research towards Oddities</i></p>	<p><b>OC10B – Daniela Valensin</b> University of Siena <i>The Ability of Lycorine to Interfere with Copper(II) – Amyloid <math>\beta</math> Associations</i></p>
11:05 - 11:20	<p><b>OC11A – Fabio Ragaini</b> University of Milano <i>Formic Acid as a CO Surrogate in Palladium-Catalyzed Reductive Cyclization Reactions of Nitroarenes</i></p>	<p><b>OC11B – Erik De Luca</b> University of Salento <i>Wireframe DNA Origami as Potential Carriers for Platinum Compound in Cancer Therapy</i></p>
11:20 - 11:35	<p><b>OC12A – Paolo Centomo</b> University of Padova <i>Acetonitrile as a Novel Selectivity Enhancer for the Direct Synthesis of Hydrogen Peroxide</i></p>	<p><b>OC12B – Elisabetta Rosa</b> University of Napoli Federico II <i>Peptide-Based Supramolecular Contrast Agents for MRI Applications</i></p>
11:35 - 11:50	<p><b>OC13A – Eros Radicchi</b> University of Verona <i>Strategies for Improving the Photocatalytic Performance of Nanostructured Titania in the Visible Range</i></p>	<p><b>OC13B – Denise Lovison</b> Technical University of Munich <i>Water-Soluble Ru(II) Complexes and Ru-Micelles as Efficient Catalysts for Transfer Hydrogenation Reactions Involving Biomolecules</i></p>
11:50 - 12:05	<p><b>OC14A – Marta Stucchi</b> University of Milano <i>Exploring the Effect of Sn Addition to Au-Based Catalyst for Alkane Oxidation</i></p>	<p><b>OC14B – Riccardo Lucentini</b> (ISOF) National Research Council <i>Inorganic Chemistry @School: Fostering Students' Engagement with Educational Games and Experiments</i></p>
	<b>Sala dei Notari</b>	
12:10 - 13:00	<p><b>PL3 – Vincenzo Busico</b> University of Napoli Federico II <i>Ziegler-Natta Catalysts and Polypropylene: A Controversial Story</i> Chair Cristiano Zuccaccia</p>	
13:00 - 15:00	<b>Lunch and Posters</b>	

	<b>Sala dei Notari</b>	
15:00 - 15:50	<p><b>PL4 Nasini Medal 2023 – Matteo Mauro</b> University of Strasbourg and CNRS <i>Taming Metal(Loid) Complexes and their Excited States for Optoelectronics</i> Chair Francesco Paolo Fanizzi</p>	
15:50 - 16:20	<p><b>KL4 – David Pearson</b> The Dow Chemical Company <i>Catalyst Innovations in Polyethylene</i> Chair Francesco Paolo Fanizzi</p>	
16:20 - 16:50	<p><b>KL5 – Giovanni Bistoni</b> University of Perugia <i>Computational Design of Molecular Catalysts with Tailored Selectivity</i> Chair Francesco Paolo Fanizzi</p>	

16:50 - 17:10	Coffee Break	
	<b>Session 5 – Sala dei Notari</b> Chair Paola Belanzoni	<b>Session 6 – Aula Magna FISSUF</b> Chair Tiziana Marino
17:10 - 17:35	<b>Ad hoc O3A - Carmine Capacchione</b> University of Salerno <i>From Mononuclear to Dinuclear Chromium(III) Complexes With [OSSO]-Type Ligands for the ROCOP of Epoxides with CO<sub>2</sub> and Organic Cyclic Anhydrides</i>	<b>Ad hoc O3B – Tiziano Marzo</b> University of Pisa <i>Unveiling the Mechanism of Action of Medicinal Inorganic Compounds: Interpretation, Challenges and Future Directions</i>
17:35 - 17:50	<b>OC15A – Luca Guglielmero</b> University of Pisa <i>Metal-EDTA Ionic Liquids Catalyzed Cycloaddition of CO<sub>2</sub> to Epoxides</i>	<b>OC15B – Nicola Sargentoni</b> University of Camerino <i>Studies of the Halogen Addition to NHC-Au Systems and on the Anticancer Activity Against Non Small Lung Cancer Cells</i>
17:50 - 18:05	<b>OC16A – Roberto Esposito</b> University of Napoli Federico II <i>Catalytic Esterification of Levulinic Acid with Polyols</i>	<b>OC16B – Matteo Boniburini</b> University of Modena e Reggio Emilia <i>Development of Oxaliplatin Derivatives: Synthesis, Characterization and Preliminary In Vitro Activity</i>
18:05 - 18:20	<b>OC17A – Roberto Gobetto</b> University of Torino <i>Recent Advances in Electrochemical Reduction of Carbon Dioxide by Molecular Catalysts Functionalized on Electrode Surface</i>	<b>OC17B – Ester Giorgi</b> University of Pisa <i>New Cytotoxic Gold(I)-NHC Complexes with Potential Targeted Anticancer Activity</i>
18:20 - 18:35	<b>OC18A – Federico Franco</b> University of Trieste <i>Mechanistic Insights of Electrochemical CO<sub>2</sub> Reduction Catalyzed by Manganese N-Heterocyclic Carbene Complexes</i>	<b>OC18B – Stefano Scoditti</b> University of Calabria <i>Reduction Mechanism and G-Quadruplex DNA Binding of a Redox-Activated Platinum(IV)-Salphen Complex</i>
18:35 - 18:50	<b>OC19A – Giammarco Meloni</b> University of Padova <i>Exploring the Reductive CO<sub>2</sub> Fixation to Amines Using Stable NHC-Phenolate Copper(II) Complexes</i>	<b>OC19B – Giada Ciardullo</b> University of Calabria <i>Incorporation of N7-Platinated Guanines into Thermus Aquaticus (TAQ) DNA Polymerase: Atomistic Insights from Molecular Dynamics Simulations</i>
18:50 - 19:05	<b>OC20A – Pietro Ostellari</b> University of Padova <i>Enabling Copper Circularity: a New Age for Coordination Chemistry</i>	<b>OC20B – Carlo Marotta</b> University of Pisa <i>Synthesis and Encapsulation in Nanoparticles of New Pt(IV) Complexes Functionalized with Mitochondria-Targeting Agents</i>
19:05 - 20:00	Poster Session	



Thursday 14 September 2023

	<b>Sala dei Notari</b>	
8:30 - 9:20	<b>PL5 – Michael Graetzel</b> Ecole Polytechnique Fédérale de Lausanne <i>Molecular Photovoltaics and the Rise of Perovskite Solar Cells</i> Chair Filippo De Angelis	
9:20 - 9:50	<b>KL6 – Javier García-Martínez</b> University of Alicante <i>IUPAC – Bonding the Global Chemistry Community</i> <i>Inorganic Solids at the Order-Disorder Boundary</i> Chair Lidia Armelao	
9:50 - 10:15	<b>Coffee Break</b>	
	<b>Session 7 – Sala dei Notari</b> Chair Luca Rocchigiani	<b>Session 8 – Aula Magna FISSUF</b> Chair Andrea Ienco
10:15 - 10:35	<b>Ad hoc O4A – Francesca Arcudi</b> University of Padova <i>Photocatalytic Generation of Solar Fuels and Commodity Chemicals</i>	<b>Ad hoc O4B – Maria Cristina Cassani</b> University of Bologna <i>Copper and Zinc MOFs at Work: from Sensors to Biomedical Applications</i>
10:35 - 10:50	<b>OC21A – Giacomo Provinciali</b> CNR ICCOM and University of Padova <i>A New 2D Black Phosphorus-Based Photocatalyst for Energy Applications</i>	<b>OC21B – Francesca Nerli</b> University of Pisa <i>Ligand Engineering in MIL-140A(Ce) Metal-Organic Frameworks for Biogas Upgrading</i>
10:50 - 11:05	<b>OC22A – Smritirekha Talukdar</b> University of Trieste <i>BiOCl/g-C<sub>3</sub>N<sub>4</sub> as an Improved Catalyst for the Electrochemical Reduction of CO<sub>2</sub> to HCOO<sup>-</sup></i>	<b>OC22B – Andrea Rossin</b> CNR ICCOM <i>Thiazole-Decorated MOFs for Diclofenac Sodium Luminescence Sensing and Adsorption in Wastewater</i>
11:05 - 11:20	<b>OC23A – Riccardo Freccero</b> University of Genova <i>The Chemistry of Ni-Containing Intermetallic Catalysts for the CO<sub>2</sub> Hydrogenation</i>	<b>OC23B – Toni Grell</b> University of Milano <i>HR-PXRD Adsorption Isotherms for Understanding the CO<sub>2</sub> Adsorption in Iron(III) Pyrazolate-Based MOF</i>
11:20 - 11:35	<b>OC24A – Lucia Zanetti</b> CNR ICMATE and University of Padova <i>A More Sustainable Catalyst for a Circular Hydrogen Production</i>	<b>OC24B – Mariangela Oggianu</b> University of Cagliari <i>A New Regenerable Anilato-Based Ultramicroporous 3D MOF for CO<sub>2</sub> Uptake and Separation</i>
11:35 - 11:50	<b>OC25A – Christian Rossi</b> University of Genova <i>Chemical Bath Deposited Zn<sub>(1-x)</sub>Mg<sub>x</sub>O Buffer Layer for Cu(In,Ga)Se<sub>2</sub> Solar Cell</i>	<b>OC25B – Ferdinando Costantino</b> University of Perugia <i>Novel Fluorinated Metal-Organic Frameworks for CO<sub>2</sub> Adsorption and Separation</i>
11:50 - 12:05	<b>OC26A – Gianantonio Battistuzzi</b> University of Modena e Reggio Emilia <i>Co-Substituted Globins as Possible Electrobiocatalysts for Green Hydrogen Production</i>	<b>OC26B – Roberta Colaiezzi</b> University of L'Aquila <i>Tailoring Ferrite Oxide Nanoparticles for Catalytic Applications</i>



	<b>Sala dei Notari</b>
12:10 - 13:10	<p><b>PhD Awards</b></p> <p><b>Bioinorganic Chemistry – Salvatore La Gatta</b> University of Napoli Federico II <i>De Novo Designed Copper-Containing Metalloenzymes for Oxidative Chemistry</i></p> <p><b>Materials Chemistry – Paolo Cleto Bruzzese</b> Max-Planck-Institut - Germany <i>Electronic and Geometric Structure of Copper Single-Metal Sites in Zeolites by Hyperfine Spectroscopy and Quantum Chemical Modelling</i></p> <p><b>Organometallic Chemistry – Federica Santulli</b> University of Salerno <i>Zinc-Based Catalysts for the Synthesis and Chemical Recycling of Polylactide</i></p> <p>Chair Alceo Macchioni</p>
13:10 - 14:30	<b>Lunch and posters</b>

	<b>Sala dei Notari</b>	
14:30 - 15:20	<p><b>PL6 – Bruce Arndtsen</b> McGill University Montréal <i>Alternative Energy Drivers in Palladium Catalyzed Coupling Reactions</i> Chair Marcello Crucianelli</p>	
15:20 - 15:40	<p><b>EurJIC Lecture – Daniele Zuccaccia</b> University of Udine <i>Mechanochemical Procedures for the Preparation of Ruthenium Complexes</i> Chair Laura Buglioni</p>	
15:40 - 16:05	<b>Coffee break</b>	
	<b>Session 9 – Sala dei Notari</b> Chair Vieri Fusi	<b>Session 10 – Aula Magna FISSUF</b> Chair Francesca Nunzi
16:05 - 16:25	<p><b>Ad hoc O5A – Matteo Atzori</b> CNRS Grenoble <i>Exploring Magneto-Chiral Dichroism in Magnetic Molecular Materials</i></p>	<p><b>Ad hoc O5B – Luca Conti</b> University of Firenze <i>Ruthenium(II) Polypyridyl Complexes and Light: a Powerful Combination in the Design of Photoresponsive Bioactive Compounds</i></p>
16:25 - 16:40	<p><b>OC27A – Silvia Mostoni</b> University of Milano Bicocca <i>Surface Functionalization and Photosensitizer Coupling in Hybrid ZnO/SiO<sub>2</sub> Nanoscintillators</i></p>	<p><b>OC27B – Davide Corinti</b> University of Roma La Sapienza <i>Cytotoxic Dinuclear Copper(II) Complexes Target Phosphate in the Backbone of DNA</i></p>
16:40 - 16:55	<p><b>OC28A – Alberto Naldoni</b> University of Torino <i>Photochemical Imaging of Plasmonic Photocatalysts with Nanoscale Resolution</i></p>	<p><b>OC28B – Cecilia Pozzi</b> University of Siena <i>Mechanistic Insights into the Ferroxidase and Biomineralization Processes in Human Ferritins</i></p>
16:55 - 17:10	<p><b>OC29A – Francesca Coccia</b> University of Chieti-Pescara <i>Rh and Pd NPs on Wool for Flow Continuous Reductions</i></p>	<p><b>OC29B – Andrea Geri</b> University of Firenze <i>An ESI-MS Study to Gain an Insight on the Interactions between Mercury Compounds and Protein Free Thiols</i></p>

17:10 - 17:25	<p><b>OC30A – Giuseppina Cerrato</b> University of Torino <i>Tuning the Visible-Light-Driven Photocatalytic Properties of Multi-Decorated TiO<sub>2</sub> by Noble Metals towards both Propionic Acid and NO<sub>x</sub> Degradation</i></p>	<p><b>OC30B – Marianna Tosato</b> University of Padova <i>Controlling the Redox States of Copper Radioisotopes for Cancer Imaging and Therapy: Coordination Chemistry to the Rescue</i></p>
<b>Sala dei Notari</b>		
17:30 - 18:20	<p><b>PL7 – Angela Casini</b> Technical University of Munich <i>Organometallic Catalysis in Cells: from Mechanisms to Bio-Applications</i> Chair Nazzareno Re</p>	
18:20 - 19:20	<b>Assemblea Divisionale</b>	
20:00	<b>Social Dinner</b>	

### Friday 15 September 2023

	<b>Sala dei Notari</b>	
9:00 - 9:50	<p><b>PL8 Malatesta Medal 2023 – Alberto Credi</b> University of Bologna <i>Supramolecular Chemistry in Action: from Molecular Switches to Synthetic Nanoscale Motors</i> Chair Mario Chiesa</p>	
9:50 - 10:20	<p><b>KL7 – Elisa Moretti</b> University of Venezia <i>Inorganic Nanostructured Materials for Energy and Environmental Applications</i> Chair Mario Chiesa</p>	
10:20 - 10:40	<b>Coffee break</b>	
	<b>Session 11 – Sala dei Notari</b> Chair Barbara Milani	<b>Session 12 – Aula Magna FISSUF</b> Chair Noelia Faginas Lago
10:40 - 11:00	<p><b>Ad hoc O6A – Mauro Botta</b> University of Piemonte Orientale <i>Optimizing the Magnetic Properties of Macrocyclic Gd(III) Complexes Through Coordination Chemistry</i></p>	<p><b>Ad hoc O6B – Marta Maria Natile</b> CNR ICMATE and University of Padova <i>Upconverting Nanoparticles for Advanced FRET Biosensing and Bioimaging</i></p>
11:00 - 11:15	<p><b>OC31A – Gabriele Di Carlo</b> University of Milano <i>Advancements in Porphyrin-Sensitized Photoelectrochemical Cells for Tempo Oxidation</i></p>	<p><b>OC31B – Angelo Ferlazzo</b> University of Catania <i>Scandia Effect on Zirconia Based Electrochemical Sensors for the Detection of Dihydroxybenzene Isomers</i></p>
11:15 - 11:30	<p><b>OC32A – Alessio Nicolini</b> University of Modena e Reggio Emilia <i>Paramagnetic <sup>1</sup>H NMR DOSY Spectroscopy Reveals that Dinuclear Bis-β-Diketonate Complexes Rearrange to Mononuclear in Organic Solution</i></p>	<p><b>OC32B – Veronica Ghini</b> University of Firenze <i>Ferritin as a Nanocarrier for the Targeted Delivery of Metal-Based Drugs</i></p>
11:30 - 11:45	<p><b>OC33A – Linda Leone</b> University of Napoli Federico II <i>Artificial Heme-Enzymes for the Construction of Functional Nanomaterials</i></p>	<p><b>OC33B – Simonetta Geninatti Crich</b> University of Torino <i>Theranostic Nanoparticles in BNCT</i></p>

11:45 - 12:00	<p><b>OC34A – Marco Bazi</b> University of Pisa <i>Lanthanide Metallo-Ligands for the Synthesis of Heteronuclear Pt<sub>2</sub>Eu<sub>2</sub> Luminescent Arrays</i></p>	<p><b>OC34B – Lorenzo Gontrani</b> University of Roma Tor Vergata <i>The Structure Drives the Shape: Synthesis of Tailored Metal Oxide Nanoparticles in Green Innovative Media</i></p>
12:00 - 12:15	<p><b>OC35A – Gianmarco Vanuzzo</b> University of Perugia <i>Investigating the Reaction Mechanism at the Microscopic Level: Crossed Molecular Beam Studies of the Reactions between Atomic Oxygen and Small Aromatic Compounds</i></p>	<p><b>OC35B – Giacomo Dacarro</b> University of Pavia <i>Prussian Blue Nanoparticles: FDA-Approved Nanomedicine Tools with Unexplored Stability at Physiological pH</i></p>
	<b>Sala dei Notari</b>	
12:20 - 12:50	<p><b>KL8 – Eleonora Macedi</b> University of Urbino <i>Different Polyazaligands for Different Applications</i> Chair Nadia Balucani</p>	
12:50 - 13:10	<b>Closing</b>	

## POSTER SESSION

**P1 – Cecilia Albanese** University of Milano

*Exploring Halogen Bonding in the CO<sub>2</sub>-to-CO Reduction by Iron Porphyrins*

**P2 – Dario Alessi** University of Udine

*Diphosphine Ruthenium Complexes in Transfer Hydrogenation of Carbonyl Compounds Derived from Lignin and Biomass in Water with HCOONa:HCOOH*

**P3 – Asjad Ali** University of Salento

*Synthesis, Characterization, and Biological Evaluation of Imidazole/Benzimidazole Platinum Derivatives as Potential Anticancer Agents*

**P4 – Lorenzo Baldinelli** University of Perugia

*Harnessing the Electronic Structure of the Active Metal to Lower the Overpotential of the Electrocatalytic Oxygen Evolution Reaction*

**P5 – Giampaolo Barone** University of Palermo

*The HEAL ITALIA Project for the Discovery of new Metallodrugs: Transition Metal Complexes of Schiff Base Ligands as G-Quadruplex DNA Binders*

**P6 – Chiara Battocchio** University of Roma Tre

*Gold Nanorods Derivatized with Binary Surfactant Mixtures: how to Select the Secondary Surfactant to Optimize Shape and Size?*

**P7 – Sara Benetti** University of Pisa

*The Beneficial Effects of Cyclohexyl Substituent on the in vitro Anticancer Activity of Diiron Vinyliminium Complexes*

**P8 – Jayesh Bhanushali** Ariel University

*Fenton Like Reaction Using CuI as Efficient Catalyst in the Presence of Hydrogen Peroxide*

**P9 – Francesca Binacchi** University of Pisa

*Silver and Gold Biscarbenes Showed High Cytotoxic Activity. Synthesis and Solution Studies on the Binding to Different Biosubstrates*

**P10 – Enrico Boccaleri** University of Piemonte Orientale A. Avogadro

*(Metal Containing) Polyhedral Silsesquioxanes: a Bridge Between Inorganic Molecules and Materials*

**P11 – Noemi Bognanni** University of Catania

*Polyimidazole Ligands: Biological Activity of their Copper Complexes*

**P12 – Giulia Braggia** University of Padova

*Upcycling Methods for Electric Arc Furnace Slags: P-Removal from Wastewater and Fillers for Polymers*

**P13 – Matteo Briganti** University of Firenze

*Mastering the LnDOTA Series: Magnetic Anisotropy and Bond Nature Under the Lens Of Ab Initio Calculations*

- P14 – Filippo Campagnolo** University of Munchen  
*Synthesis of Ruthenium(II) Complexes Bearing Bis-NHC Ligands*
- P15 – Rosita Cappai** University of Sassari  
*Medicinal Metal Ions Complexation by Phosphonate Chelator*
- P16 – Marilena Carbone** University of Roma Tor Vergata  
*Inulin Coated ZnO Nanoparticles for Priming of V. Faba: Synthesis, Characterization and Growth of Seedlings*
- P17 – Miriam Caviglia** University of Camerino  
*Copper Complexes of Bis(Pyrazolyl)Acetates Conjugated with Biologically Active Molecules as Potential Anticancer and Antiviral Agents*
- P18 – Lorenzo Chiaverini** University of Pisa  
*New Chemical Insights into the Activation Mechanism of the Tellurium Prodrug AS101: Towards a Better Understanding*
- P19 – Anita Cinco** IUSS Pavia  
*Boron Spiro-Compounds with Imidazo[1,5-A]Pyridine Ligands*
- P20 – Maddalena Corsini** University of Siena  
*Electro Triggered Self Assembly of Metal Phenolic Networks*
- P21 – Assunta D'Amato** University of Salerno  
*Late-Transition Anticancer Metal Complexes with N-Heterocyclic Carbenes and Peptides Coordinated: Synergy Between Two Worlds*
- P22 – Serena Damian** University of Napoli Federico II  
*Light Triggered Hydrogen Evolution Promoted by Novel Ruthenium-Based Photosensitizer*
- P23 – Massimiliano D'Arienzo** University of Milano Bicocca  
*EPR Spectroscopy as an Unconventional Tool for Monitoring the Exsolution Process in Cu-Doped SrTiO<sub>3</sub>*
- P24 – Silvia De Caro** IUSS Pavia  
*Synthetic Models of Neuromelanins and Nitratative Stress*
- P25 – Lorenzo De Vita** University of Pavia  
*Potentiometric and Zeta Potential Titrations for the Study of Thiol-PEG Coatings on Gold Nanoparticles*
- P26 – Jo' Del Gobbo** University of Camerino  
*Metal Complexes Supported by Sterically Hindered  $\beta$ -Diketonates Differing in the Presence of Fluorinated Moieties*
- P27 – Simona Delsante** University of Genova  
*Al-Zn-TM (TM = Hf, Zr) Systems: Phase Equilibria and Experimental Determination of Thermodynamic Properties*
- P28 – Valentina Di Matteo** University of Bologna  
*Encapsulation of Snail Slime in Metal Organic Framework ZIF-8*

**P29 – Eliano Diana** University of Torino

*Hydrogen and Halogen Bond in Polyhalide DABCO Salts Explored by Crystalline Vibrational and DFT Investigations.*

**P30 – Lavinia Rita Doveri** University of Pavia

*Development and Characterization of Inorganic Materials and their Application in Active Packaging*

**P31 – Maria Noelia Faginas Lago** University of Perugia

*Coding Cross Sections of an Electron Charge Transfer Process: Analysis of Different Cuts for the Entrance and Exit Potentials*

**P32 – Francesco Fagnani** University of Milano

*Investigation on the Emissive Properties of NCN-Pt(II) Complexes Under Variable Temperature and Pressure*

**P33 – Francesco Paolo Fanizzi** University of Salento

*<sup>1</sup>H-NMR Based Metabolomics Assessment of Metal Ions Biocomplex Endo-Therapy Treatment in Xylella Fastidiosa Infected Olive Trees*

**P34 – Francesco Ferella** National Institute for Nuclear Physics

*Material Screening by Inductively Coupled Plasma Mass Spectrometry for Background Characterization in Rare Events Search Experiment at Gran Sasso National Laboratories*

**P35 – Andrea Fermi** University of Bologna

*Shedding Light on Persulfurated Benzenes: How to Tune their Luminescence Properties*

**P36 – Erika Ferrari** University of Modena e Reggio Emilia

*Constrained HBED Derivatives: a New Potential Class of Gallium-68 Chelators for PET Applications*

**P37 – Daniele Florio** University of Napoli Federico II

*Ruthenium Complexes with Glucosylated Ligands Revealed Able to Inhibit Amyloid Aggregation of Histidine-Peptides*

**P38 – Sara Franchi** University of Padova

*Investigation of Ba<sup>2+</sup> and Ra<sup>2+</sup> Coordination Chemistry: Design of Chelators for Radiopharmaceuticals*

**P39 – Gina Elena Giacomazzo** University of Firenze

*Nitroimidazole-Based Ruthenium(II) Polypyridyl Complexes: Turn On the Light for Fighting Anaerobic Bacteria Diseases*

**P40 – Alessia Giordana** University of Torino

*Flexible Terpyridine Metal–Organic Framework*

**P41 – Giacomo Giorgi** University of Perugia

*Tailoring High Entropy Oxides for Daytime Radiative Cooling*

**P42 – Luca Gregori** University of Perugia

*Host-Dopant Dative Bonding Facilitates Molecular Doping in Tin-Lead Perovskites*

**P43 – Giovanna Iucci** University of Roma Tre

*Polymer/CNT Composites for Biomedical Sensors Investigated by XPS, NEXAFS and SIMS Spectroscopy*

- P44 – Daniela Lalli** University of Piemonte Orientale A. Avogadro  
*Fluoride Binding by Ln(III)-Complexes: a Multinuclear and Multifrequency NMR Study*
- P45 – Vincenzo Langellotti** University of Napoli Federico II  
*Dehydrogenation of Formic Acid Catalyzed by Iridium-Based Organometallic Complexes Having Pyridine-Amide Ligands with a Sugar Substituent*
- P46 – Giuseppe Larotonda** University of Basilicata  
*Novel Thienyl-Substituted Porphyrazine Complexes for Photovoltaic Applications*
- P47 – Letizia Liccardo** University of Venezia  
*Surface Defects Engineering on Nano-Cu/TiO<sub>2</sub> for Efficient Hydrogen Production*
- P48 – Andrea Lombardi** University of Perugia  
*Classification of Biomolecular Structures by Invariant Shape and Deformation Parameters*
- P49 – Luca Mancini** University of Perugia  
*A Theoretical Characterization of the Reaction Mechanism at the Microscopic Level for Bimolecular Reactions Leading to the Formation of Interstellar Phosphorus- and Silicon- Bearing Molecules*
- P50 – Eleonora Marconi** National Institute for Nuclear Physics  
*Fine-Tuning the Synthesis of TiO<sub>2</sub> Nanoparticles Through DOE (Design Of Experiment) Model*
- P51 – Mirco Meglioli** University of Modena e Reggio Emilia  
*Preparation and Characterization of Cobalt Substituted Globins*
- P52 – Manuel Minnucci** University of Milano  
*Low-Temperature Chemoresistive Sensing of Acetone by Porphyrin-SnO<sub>2</sub> Hybrids*
- P53 – Lorenzo Mirizzi** University of Milano Bicocca  
*Synthesis of Al<sub>2</sub>O<sub>3</sub>@ZnO Binary Filler to Couple Thermal Conductivity and Self-Healing Features of Carboxylated Nitrile Rubber*
- P54 – Edoardo Mosconi** CNR-SCITEC  
*Computational Modeling of Perovskite for Photocatalysis*
- P55 – Fatemeh Niknam** University of Salerno  
*New [OSSO]-Type Chromium (III) Complexes for Copolymerization and Terpolymerization of Epoxides with Carbon Dioxide and Phthalic Anhydride*
- P56 – Roberto Nisticò** University of Milano Bicocca  
*Effect of the Surface Functionalization on Alumina-Based Fillers for Enhancing the Thermal Conductivity of Polymeric Nanocomposites*
- P57 – Maria Cristina Paganini** University of Torino  
*Harnessing the Potential of Heterojunction Between C<sub>3</sub>N<sub>4</sub> and ZnO in Photocatalysis for the Removal of CECS*
- P58 – Giacomo Pannacci** University of Perugia  
*An Experimental Investigation of the Reaction Mechanism at the Microscopic Level for Bimolecular Reactions Involving Atomic Oxygen and Unsaturated Nitriles*



**P59 – Miriam Parmigiani** University of Pavia

*Selective Etching of Silver Shell on Gold Nanostars for LSPR and SERS Detection of Fe(III) Ions: a Multichannel Approach*

**P60 – Massimiliano Francesco Peana** University of Sassari

*Zn(II) and Cu(II) Binding to the C-Terminal Region of ACE2 Receptor: the Recognition Interface of ACE2 for Sars-Cov-2 Spike Protein*

**P61 – Beatrice Pennacchi** University of Roma La Sapienza

*Gold and Silver Nanoparticles Functionalization into Fluorescent Nanomaterials*

**P62 – Marco Piccini** University of Genova

*Aqueous Synthesis of Two-Dimensional Layered Double Hydroxides*

**P63 – Federico Pini** University of Padova

*Insights in Molecular Upconversion: Polynuclear Lanthanide Complexes Case*

**P64 – Francesco Piraino** University of Milano Bicocca

*Anisotropic Silica-Based Nanomaterials from Renewable Feedstock*

**P65 – Maria Rosaria Plutino** ISMN-CNR

*Design and Development of Sustainable and Functional Innovative Coatings for Textiles*

**P66 – Christian Silvio Pomelli** University of Pisa

*Computational and Experimental Study of Vanadium(V) Species in Aqueous Solution*

**P67 – Emanuele Priola** University of Torino

*Gold(I/III) Perovskites for Photovoltaic Applications: from Molecular Structure to Intermolecular Interactions*

**P68 – Chiara Ragusa** University of Catania

*Promising Metallo-B-Lactamases Inhibitors as Antibiotic Adjuvants*

**P69 – Giulia Rando** University of Messina

*Nanostructured Polymer-Based Membranes for Sustainable Wastewater Remediation*

**P70 – Rebecca Rizzo** University of Torino

*Novel Bi-HPDO3A Contrast Agent for X-Ray Computed Tomography*

**P71 – Luca Rocchigiani** University of Perugia

*Structure and Reactivity of  $[LAu(\mu-H)_2MCP_2][X]$  Dihydrides ( $M = Mo, W$ ): Exploring Ligand and Anion Effects*

**P72 – Dominga Rogolino** University of Parma

*2,3-Dihydroisoindolinone Chelating Pharmacophore for the Inhibition of Bunyaviral Endonuclease*

**P73 – Serena Schiavi** University of Pavia

*Polydopamine Coated Gold Nanostars: Toward Sers Platforms*

**P74 – Simon Sengupta** Friedrich-Schiller University Jena

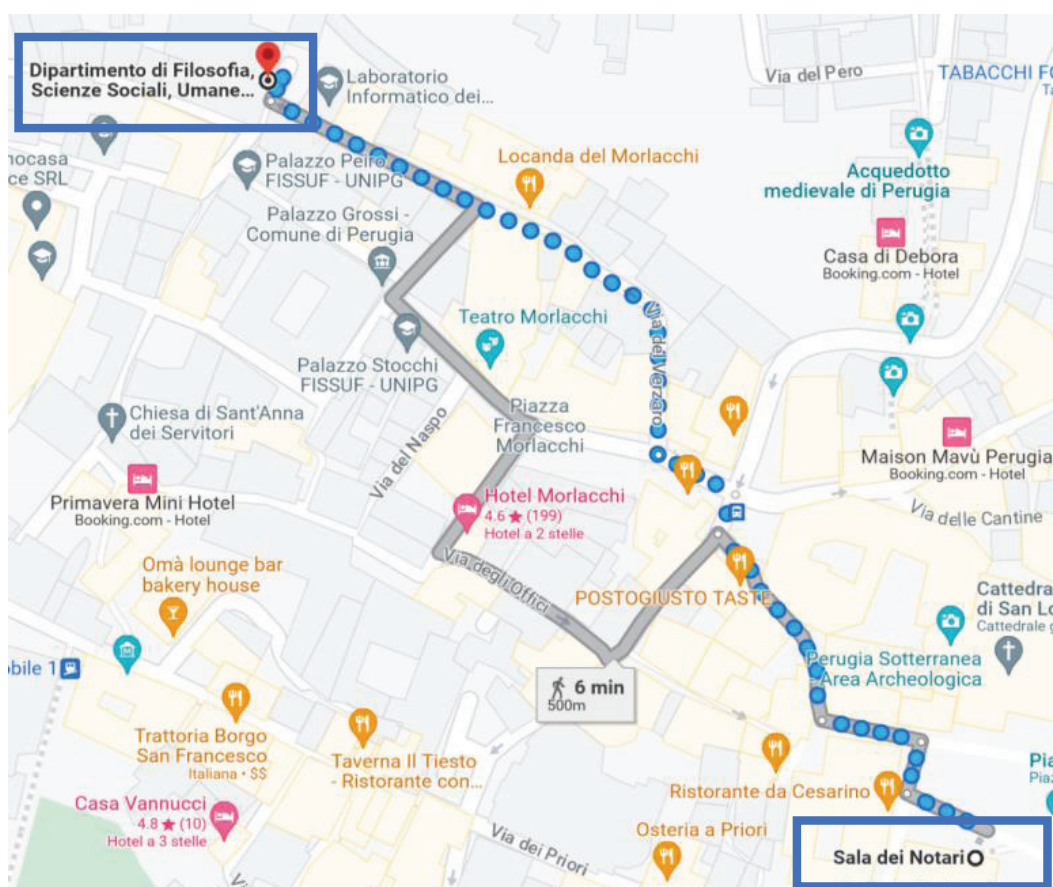
*Synthesis of Alkaline-Earth Metal Amides Applying the in situ Grignard Addition Method*

- P75 – Giacomo Senzacqua** University of Sassari  
*Synthesis and Characterization of New Gold(III) Cyclometalated Derivatives with 3-Substituted 1-(2-Pyridyl)Imidazo[1,5-a]Pyridines*
- P76 – Erika Stefàno** University of Salento  
*Improving Cytotoxic Activity of Cationic  $[Pt(\eta^1-C_2H_4-OR)(DMSO)(Phen)]^+$  Complexes by R Alkyl Chain Length Optimization*
- P77 – Diego Tesauro** University of Napoli Federico II  
*Reactivity of Environmental Relevant Hg Ions with S- or Se- Containing Model Peptides*
- P78 – Lucia Tonucci** University of Chieti-Pescara  
*Green Metal Nanoparticles for Selective Reduction Reactions in Water*
- P79 – Luca Tortora** University of Roma Tre  
*One-Pot Synthesis of Zn-Doped Mesoporous Silica KCC-1*
- P80 – Caterina Trotta** University of Perugia  
*Highly Active Cp\*-Ir Catalysts for Chemical NADH Regeneration*
- P81 – Iranna Udachyan** Ariel University  
*Manganese Carbonate as an Efficient Electrocatalyst for the Conversion of Ammonia ( $NH_4^+/NH_3$ ) to Dinitrogen*
- P82 – Gaia Urciuoli** University of Perugia  
*Well-defined and "Complete" Al-Cocatalysts for Olefin Polymerization*
- P83 – Iole Venditti** University of Roma  
*Fluorescent Gold Nanoparticles as Carrier for Radiopharmaceuticals*
- P84 – Francesco Viceconte** University of Basilicata  
*Sulfonated N-Heterocyclic Carbene Silver(I) And Gold(I) Complexes in  $\pi$ -Functionalization of Alkynes*
- P85 – Simone Virga** University of Palermo  
*Structural Properties Determining the Near-Edge X-Ray Absorption Spectra of Lead Halide Perovskites*
- P86 – Sonila Xhafa** University of Camerino  
*Cu And Zn MOFs Are Efficient Antimicrobial Materials in the Prevention of Post-Harvest Decay of Climacteric Fruits Along the Supply Chain*
- P87 – Alessio Zavaroni** University of Parma  
*Two Novel Water Soluble Ligands for the Design of Metal-Based Anticancer Drugs*
- P88 – Cristiano Zuccaccia** University of Perugia  
*Structural Analysis, Dynamics and Reactivity of Zr and Hf Salan Complexes*
- P89 – Serenella Medici** University of Sassari  
*Prostate Cancer and Heavy Metals*
- P90 – Anna Donnadio** University of Perugia  
*Comparative Study for Electrochemical Performance of 2D Materials: Structures, Synthesis and Electrocatalytic Applications*

# VENUE

**Sala dei Notari – Palazzo dei Priori**  
**Piazza IV Novembre, 1**

**Aula Magna FISSUF**  
**Palazzo Florenzi – Piazza Giuseppe Ermini, 1**



# SOCIAL PROGRAMME

## Welcome Party

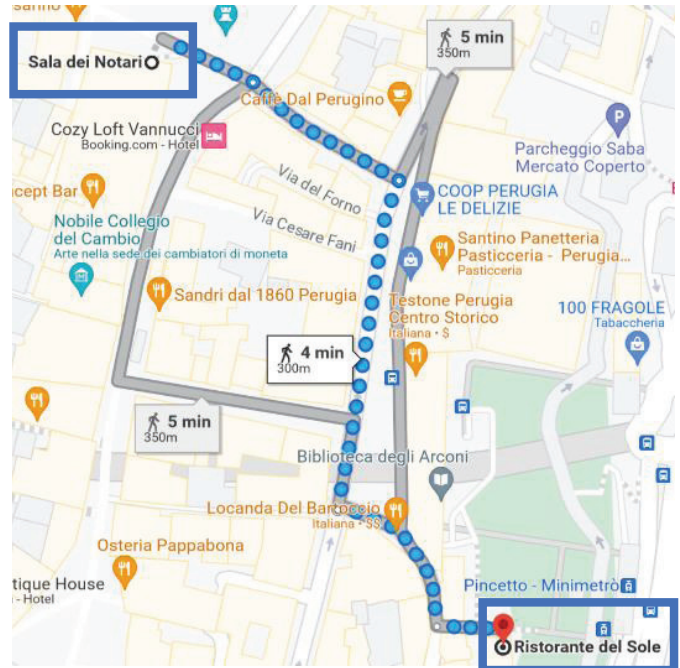
(included in the registration fee)

**Tuesday 12 September 2023**

## Ristorante del Sole

Via Della Rupe, 1 Perugia

**08:00 PM**



## Lunches

(not included in the registration fee)

## Social Dinner

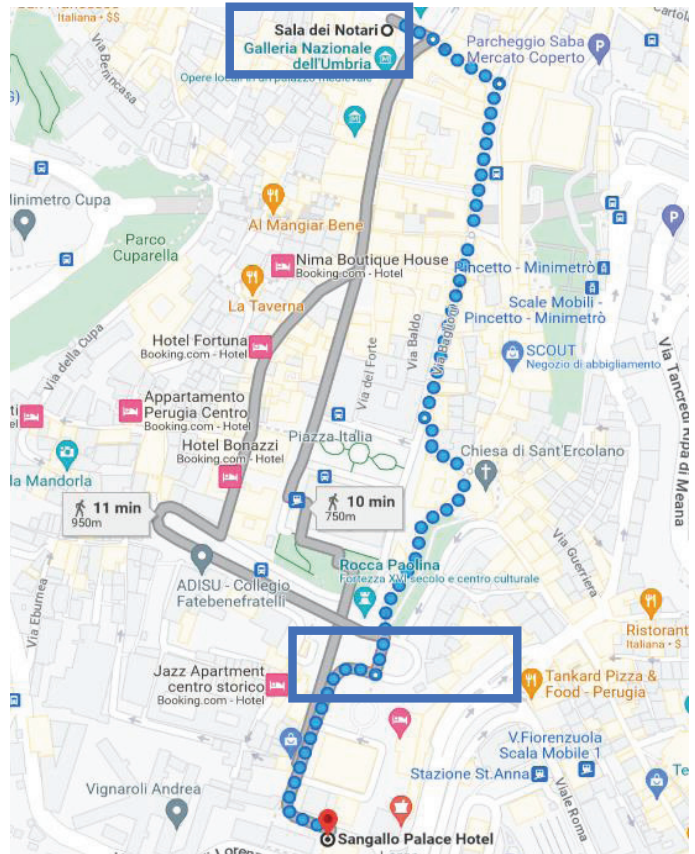
(included in the registration fee)

**Thursday 14 September 2023**

## Sangallo Palace Hotel

Via L. Masi, 9 Perugia

**08:00 PM**







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