



Il Contributo dei Giovani Chimici in Campania

20 giugno 2023

Sala Conferenze del Dipartimento di Scienze Chimiche
dell'Università degli Studi di Napoli Federico II

Programma

08:30 – 10:00	Registrazione/Benvenuto
10:00 – 10:30	Saluti istituzionali: Prof. Luigi Paduano (Direttore DSC, Università degli Studi di Napoli Federico II), Prof. Roberto Fattorusso (Presidente SCI Campania), Prof. Gianluca Farinola (Presidente SCI)
10:30 – 11:00	Plenaria: Prof. Gaetano Guerra (Università di Salerno). <i>Chairman:</i> Prof. Roberto Fattorusso, Prof. Vincenzo Russo
Sessione I	
11:10 – 13:00	Sessione I.A (Sala congressi). <i>Chairman:</i> Prof. Roberto Fattorusso, Prof. Vincenzo Russo
11:10 – 13:00	Sessione I.B (CH2). <i>Chairman:</i> Prof. Raffaele Cucciniello, Prof.ssa Roberta Marchetti
11:10 – 13:00	Sessione I.C (COB1). <i>Chairman:</i> Prof. Stefano Cinti, Prof.ssa Rosa Vitiello
13:00 – 14:00	Foto di Gruppo e Light lunch
Sessione II	
14:00 – 16:00	Sessione II.A (Sala congressi). <i>Chairman:</i> Prof. Stefano Cinti, Prof.ssa Margherita Brindisi
14:00 – 16:00	Sessione II.B (CH2). <i>Chairman:</i> Prof. Luigi Russo, Prof.ssa Andrea Correa
16:00 – 16:30	Coffee break
Sessione III	
16:30 – 18:00	Sessione III.A (Sala congressi). <i>Chairman:</i> Prof. Giarita Ferraro, Prof.ssa Rosa Turco
16:30 – 18:00	Sessione III.B (CH2). <i>Chairman:</i> Prof. Luigi Russo, Prof.ssa Gabriella Pinto
18:00 – 18:15	Saluti conclusivi

Programma scientifico dettagliato. Aule: SC (Sala Congressi), CH2, COB1.

	N°	Oratore	Titolo presentazione	Ora	Aula
SESSIONE 1.A	1	Manuela Giovanna Basilicata	Characterization of individual histone post-translational modifications by mass spectrometry-based proteomics strategies	11:10	SC
	2	Gabriella Costabile	Tackling the mucus barrier to inhaled siRNA: lesson learned on PEGylation of hybrid lipid-polymer nanoparticles	11:20	
	3	Rodolfo Esposito	The role of monorhamnolipids to design eco-sustainable formulations	11:30	
	4	Roberto Esposito	Catalytic valorization of biomass-derived feedstocks	11:40	
	5	Noemi Gallucci	Nano-bio-interfaces for optical biosensor: optimization of F-doped zinc oxide nanoparticles as a transducer	11:50	
	6	Alessandro Landi	In-silico prediction of the organic solar cells' efficiency	12:00	
	7	Viviana Nebbioso	New Potential of RSLDE: A Green Technique for the Extraction of Bioactive Molecules from Not Completely Exhausted Plant Biomass and Organic Industrial Processing Waste	12:10	
	8	Alessio Petrone	Photo-induced excitonic states and non-equilibrium ultrafast dynamics	12:20	
	9	Francesco Ferdinando Summa	Spin Currents Induced in Open-Shell Molecules by Static and Uniform Magnetic and Electric Fields in the Presence of a Spin– Orbit Coupling Interaction and Conservation Law	12:30	
	10	Francesco Taddeo	Catalytic screening and study of the kinetics for DPA synthesis	12:40	
SESSIONE 1. B	1	Giuseppe Antinucci	Ziegler-Natta Catalysts for Propene Polymerization: A Bridge between Heterogeneous and Molecular Catalysis	11:10	CH2
	2	Elisabetta Rosa	Peptide based platforms as versatile biotechnological tools	11:20	
	3	Gianluca D'Abrosca	Structural Characterization of MucR from B. abortus: does it act as nucleoid associated protein?	11:30	
	4	Assunta D'Amato	New Frontiers in Catalytic and Biologic Applications of Late-Transition NHC Metal Complexes	11:40	
	5	Concetta Di Natale	Innovative biosensor for testing picogram level of different protein biomarkers	11:50	
	6	Salvatore Impemba	A New Coordination Sphere for the Development of Metal Catalysts: the NSSN ligands	12:00	
	7	Linda Leone	Catalytic promiscuity in metalloporphyrin-containing mini-enzymes	12:10	
	8	Claudia Riccardi	Bioengineered lipid-conjugated Ru(III) complexes for cancer treatment	12:20	
	9	Marco Chino	Engineering a Miniature Protein in a Visible Light-Powered Fully Artificial Electron Transport Chain	12:30	
	10	Ilaria Silvestri	Targeting the conserved active site of splicing machines with specific and selective small molecule modulators	12:40	

SESSIONE 1.C	1	Maria Laura Alfieri	Mussel-inspired adhesive functional polymers beyond polydopamine	11:10	COB1
	2	Felicia Daniela Cannavacciuolo	Unraveling the effect of donors in Ziegler-Natta catalysis through a combined HTE and ML approach	11:20	
	3	Claudio Imparato	Metal oxide-organic hybrid materials with enhanced oxidative activity through charge transfer complexes	11:30	
	4	Rosaria Schettini	Macrocycles: new directions in synthesis and catalysis	11:40	
	5	Miriam Scoti	Tacticity independent crystallization as a tool to tailor mechanical and thermal properties in chemically recyclable poly-3- hydroxybutyrates.	11:50	
	6	Romualdo Troisi	Novel structural features of anticoagulant aptamers revealed by X-ray crystallography	12:00	
	7	Gaia Urciuoli	Well-defined and “complete” Al-cocatalysts for Olefin Polymerization: Synthesis and Reactivity Studies	12:10	
	8	Giovanna Valentino	NMR-based metabolomics for the identification and characterization of specialized metabolites from Mediterranean Asteraceae species for anticancer drug discovery	12:20	
	9	Antonio Vittoria	High-Throughput Experimentation (HTE) for Catalytic Olefin Polymerizations: From Catalysis to Materials	12:30	
	10	Francesco Zaccaria	On the Activation of Molecular Catalysts for Olefin Polymerization	12:40	
	11	Fulvio De Paola	Adsorption of Co(II) Ions from Aqueous Solutions onto Hybrid Geopolymers	12:46	
SESSIONE 2.A	1	Antonella Miglione	Development of an electrochemical biosensor for on-glove applications: detection of pesticides directly on fruit peels	14:00	SC
	2	Vincenzo Battaglia	One-Pot Catalytic Enantioselective Synthesis of Biological Active α -Amino Esters	14:06	
	3	Marcello Casertano	Learning from nature: from a Marine Natural Product to a new class of multitarget phosphorylated polyketides	14:12	
	4	Federico Coppola	Vibrational characterization of TCNE- Na^+/K^+ salts in solution: a theoretical survey by means of ab-initio molecular dynamics simulation	14:18	
	5	Daniele D'Alonzo	Chemodivergent oxidation of halophenols catalyzed by aminiaturized heme-enzyme	14:24	
	6	Vincenzo Maria D'Amore	A dynamical and atomistic resolution view of the g protein coupled receptor $\alpha 2a$ activation mechanism	14:30	
	7	Federica D'Aria	Biophysical studies of new G-quadruplex-forming aptamers against mutant huntingtin	14:36	
	8	Teresa De Rosa	Monitoring of Cyanobacterial Blooms Along the Campania Coastline	14:42	
	9	Fabio De Stefano	Functional Polyethylenes from Catalytic Terpolymerization of Ethylene, Carbon Monoxide and Norbornene	14:48	
	10	Maria della Valle	Polystyrene nanoplastics affect the human ubiquitin structure and ubiquitination in cells: a high-resolution study	14:54	
	11	Rosanna Paparo	Adsorption kinetic of iopamidol onto activated carbon	15:00	
	12	Martina Dragone	Role of aspartate on metal binding affinity and on the secondary structure content in prokaryotic zinc fingers	15:06	
	13	Michele Emanuele Fortunato	Heterogeneously catalyzed esterification of oleic acid with trimethylolpropane: a kinetic investigation	15:12	

	14	Angela Di Somma	Mechanism of action of natural products and antimicrobial peptide	15:18	
	15	Veronica Iuliano	Supramolecular Catalysis in Confined Space	15:24	
	16	Angela Marseglia	Recognition mechanisms of bacterial glycans by host immune receptors	15:30	
	17	Simona Barone	Selective HDAC6 inhibition as a potential therapeutic tool for cystic fibrosis associated inflammation: the first proof-of-concept	15:36	
	18	Ferran Nieto-Fabregat	Exploring the Interactions between Bacterial Lipopolysaccharides and Human Immune Receptors: Implications for Modulating Immune Responses	15:42	
	19	Alessio Occhicone	Novel alkaline and acid activated red mud based geopolymers	15:48	
SESSIONE 2.B	1	Emilia Cassese	Design, synthesis, biological evaluation, and X-ray structural characterization of very potent covalent reversible inhibitors with broad-spectrum activity against CoVs 3C-like protease	14:00	CH2
	2	Maria De Fenza	New peptidomimetics to tackle AMD by subcutaneous treatments	14:06	
	3	Paolo Della Sala	Prism[n]arene Macrocycles: A Novel Tool in Supramolecular Chemistry	14:12	
	4	Viviana Di Matteo	Discovery of new non-ribosomal peptides by integrated genome mining and ms-based molecular networking in saccharomonospora marina	14:18	
	5	Anna Esposito	N-substituted L-deoxyiminosugars as novel therapeutic tools for the treatment of Mucopolysaccharidosis IIIB	14:24	
	6	Claudia Finamore	Oxidized bile acid derivatives as LIFR/LIF inhibitors	14:30	
	7	Domenico Loreto	Cross-Linked Crystals of Dirhodium Tetraacetate/RNase A adduct can act as heterogeneous catalysts	14:36	
	8	Fatemeh Niknam	New Dinuclear Cr(III) Complexes for Copolymerization and Terpolymerization of Carbon dioxide and Epoxides	14:42	
	9	Angelo Giordano	Isotactic polypropylene-based heterophasic copolymers: development of methods for improving toughness without losing mechanical strength.	14:48	
	10	Angela Perrone	Solid-Liquid Extraction by Maceration and RSLDE to Evaluate the Recovery Efficiency of Bioactive Principles Obtained from Plants in Mixture or from the Mixing of Single Plants	14:54	
	11	Giovanni Pierri	Solid state X-ray characterization of cyclic peptoids at UNISA	15:00	
	12	Pasquale Rapacciuolo	Discovery of new GPBAR1 agonists – ROR γ t inverse agonists for the treatment of IL-17-mediated diseases	15:06	
	13	Domenico Romano	Bioactive oxylipins form Ononis diffusa with antiproliferative activity against cetuximab® resistant cell lines	15:12	
	14	Olga Sacco	Selective oxidation of benzene to phenol using polymer composites as photoreactive solid phases	15:18	
	15	Federica Santulli	Metal catalysts for closing the cycle of PLA lifetime	15:24	
	16	Carla Sardo	Inulin-g-branched polyethyleneimine and its amphiphilic analogue Inulin-g-branched polyethyleneimine-g-poly-D,L-lactide as siRNA delivery vehicles	15:30	

	17	Rosa Sparaco	Molecular hybrids between antiglaucoma drugs and H ₂ S donors: synthesis and in vitro H ₂ S releasing properties	15:36	
	18	Irene Tozio	New Aluminum Complexes Supported by Thioether-Amide Ligands for ROP of cyclic esters.	15:42	
	19	Rosa Villaccio	Innovative functional elastomers based on copolymers of syndiotactic polypropylene with non-conjugated dienes	15:48	
SESSIONE 3.A	1	Wanda Cimmino	Design of a paper-based electrochemical strip for miRNA - detection related to lung cancer	16:30	SC
	2	Alessia Angelillo	Self-assembling nanoparticles for RNA delivery in personalized medicine	16:34	
	3	Susy Brusco	Exploiting the role of ionizable lipids in pulmonary delivery of siRNA through hybrid lipid-polymer nanoparticles	16:38	
	4	Clementina Acconcia	Integrated NMR-based approach for exploring the structural and dynamical features of two RGDechi-derived peptides	16:42	
	5	Emmanuel De Gregorio	Leaching of red mud: from iron recovery to fine chemicals	16:46	
	6	Daria Di Prisco	Synthesis and characterization of PNA-human ferritin complexes	16:50	
	7	Nancy Ferrentino	Coumarin-based poly(ϵ -caprolactone)-poly(ethylene glycol) block copolymers as NIR light-responsive system	16:54	
	8	Sabrina Giordano	Release studies of PNA molecules from peptide-based nanosystems	16:58	
	9	Vincenzo Langelotti	Catalytic conversion of levulinic acid into esters with polyols	17:02	
	10	Maddalena Paolillo	Binding to Lysozyme of the Pharmacologically Active VIVO-Pyridinone Drug	17:06	
	11	Ada Raucci	Bacterial polymers to realize novel bio-based electroanalytical (bio)sensors	17:10	
	12	Virgilio Romanelli	Deep learning-assisted design of PPARs/FXR modulators for the treatment of liver diseases	17:14	
	13	Alessandra Sessa	Alternative synthesis of ZIF-8 in glycerol carbonate: pathway optimization and environmental sustainability	17:18	
	14	Federica Tufano	Aliphatic Polycarbonates from Ring-Opening Polymerization of Bio-Based Cyclic Carbonates	17:22	
	15	Domenico Zannini	One-pot recycling technology: dissolution and polymerization of expanded polystyrene waste (EPS)	17:26	
SESSIONE 3.B	1	Giovanna Aquino	Green-based valorization strategy for the extraction of bioactive compounds from agri-food waste	16:30	CH2
	2	Andrea Criscuolo	Exploring the Binding of Natural Compounds to Cancer-Related G-Quadruplex Structures: From 9,10-Dihydrophenanthrenes to Their Dimeric and Glucoside Derivatives	16:34	
	3	Serena Damian	Bioinspired systems for light-driven hydrogen evolution	16:38	
	4	Daniele Florio	Ruthenium complexes as inhibitors of amyloid aggregation	16:42	
	5	Giuseppe Gravina	Ring opening polymerization of biobased monomers promoted by pyridylamidoiron(II) catalysts	16:46	
	6	Giulia Moro	Tips and tricks for designing point-of-care tests with an electrochemiluminescence readout	16:50	

	7	Sadeq Mousavi	kinetic study and investigation of 3-isochromanone and 2- coumaranone in the Michael addition reaction	16:54	
	8	Maria Grazia Nolli	Interactions between secondary structures and potential ligands.	16:58	
	9	Odile Francesca Restaino	Biotechnology for innovative bioplastic production	17:02	
	10	Yolanda Rusconi	Polymerization mechanism(s) for alternating poly(lactic-coglycolic acid) disclosed by DFT calculations	17:06	
	11	Antonia Scognamiglio	3,5-dihydrobenzo[e][1,4]thiazepin-2(1H)-one Derivatives as NCX3 Modulators: Design, synthesis and biological evaluation	17:10	
	12	Gianmattia Sgueglia	Metal site geometry and coordination number prediction with neural networks	17:14	
	13	Gabriella Tito	Interaction of dirhodium tetraacetate with B-DNA double helical dodecamer	17:18	
	14	Nataliia Ventserova	Structural and mechanistic insights into the early stages of prion amyloid fibril formation	17:22	