



Il Contributo dei Giovani Chimici in Campania

Edizione 2024



Programma

08:30 – 09:30	Registrazione/Benvenuto
09:30 – 10:00	Saluti istituzionali: Prof. Antonio Fiorentino (Direttore DISTABIF, Università degli Studi della Campania Luigi Vanvitelli), Prof.ssa Concetta Giancola (Presidente SCI Campania), Prof. Gianluca Farinola (Presidente SCI), Dott.ssa Rossella Fasulo (Presidente OCF Campania)
10:00 – 10:30	Plenaria (Aula A2): Prof. Roberto Fattorusso (Università degli Studi della Campania Luigi Vanvitelli). <i>Chairperson</i> : Prof.ssa Concetta Giancola, Prof. Luigi Russo
Sessione I	
10:40 – 13:00	Sessione I.A (Aula A2). <i>Chairperson</i> : Dott.ssa Clementina Acconcia, Prof. Luigi Russo
10:40 – 13:00	Sessione I.B (Aula B2). <i>Chairperson</i> : Dott.ssa Fabiana Piscitelli, Prof. Vincenzo Russo
10:40 – 13:00	Sessione I.C (Aula A3). <i>Chairperson</i> : Prof.ssa Stefania Terracciano, Prof. Raffaele Cucciniello
13:00 – 14:00	Foto di Gruppo e Light lunch
Sessione II	
14:00 – 16:00	Sessione II.A (Aula A2). <i>Chairperson</i> : Dott.ssa Giovanna Valentino, Prof. Stefano Cinti
14:00 – 16:00	Sessione II.B (Aula B2). <i>Chairperson</i> : Prof.ssa Stefania Terracciano, Prof. Vincenzo Russo
14:00 – 16:00	Sessione II.C (Aula A3). <i>Chairperson</i> : Dott.ssa Fabiana Piscitelli, Prof. Gianluca D'Abrosca
16:00 – 16:30	Coffee break
Sessione III	
16:30 – 18:30	Sessione III.A (Aula A2). <i>Chairperson</i> : Dott.ssa Maria Della Valle, Prof. Raffaele Cucciniello
16:30 – 18:30	Sessione III.B (Aula B2). <i>Chairperson</i> : Prof.ssa Stefania Terracciano, Prof. Luigi Russo
16:30 – 18:30	Sessione III.C (Aula A3). <i>Chairperson</i> : Dott.ssa Fabiana Piscitelli, Prof. Vincenzo Russo
18:30 – 18:45	Saluti conclusivi



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Programma scientifico dettagliato

SESSIONE I.A			
N	Oratore	Titolo Presentazione	Orario
1	Antonella Ilenia Alfano	Modular Synthesis of Benzoylpyridines Exploiting a Reductive Arylation Strategy	10:40
2	Gaetano Caputo	Molecular docking and UV-Vis analysis of 3-O-Methylfunicone β -cyclodextrin complex for antiviral drug development mechanism	10:50
3	Simona De Vita	Pharmacophore-based Inverse Virtual Screening and its application in accelerating the target identification and repositioning of bioactive compounds	11:00
4	Emis Ingenito	Novel 1,3,4-Oxadiazoles as Potent PD-L1 Antagonists: A One-Pot Synthetic Approach for Enhanced Immune Checkpoint Inhibition	11:10
5	Alessandro Landi	Simulation of organic mixed ionic and electronic conductors with a combined classical and quantum mechanical model	11:20
6	Valerio Loianno	Unveiling the competitive diffusion of binary gas mixtures in polymers: the case of carbon dioxide and alkanes in nanoporous-crystalline polyphenylene oxide	11:30
7	Antonella Miglione	Development of a screen-printed electrode for the detection of Alkaline phosphatase as biomarker for cancer diagnosis and monitoring	11:40
8	Prisco Prete	Development and validation of an eco-compatible UV-Vis spectrophotometric method for the determination of Cu^{2+} in aqueous matrices	11:50
9	Federica Dragone	Marine Strategy Framework Directive: nutrient analysis in seawater samples	12:00
10	Valeria Romanucci	Targeting METTL3-14 degradation by PROTAC technology: design, synthesis and biological evaluation of new promising library of degraders	12:10
11	Francesco Ferdinando Summa	Derivation of Nuclear Magnetic Shielding and Magnetizability in Open-Shell Systems Throughout a Semi-Relativistic Approach	12:20



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SESSIONE I.B			
N	Oratore	Titolo Presentazione	Orario
1	Susy Brusco	PEI-engineered lipid@PLGA hybrid nanoparticles for delivery of antigens and immune adjuvants through the respiratory mucosa	10:40
2	Carolina Cané	The antimicrobial peptide Esc(1-21)-1c increases susceptibility of Pseudomonas aeruginosa to conventional antibiotics by decreasing the expression of the MexAB-OprM efflux pump	10:50
3	Irene Contento	Gold nanoparticles supported on Poly(2,6-dimethyl-1,4-phenylene oxide) as catalyst: from oxidation processes to hydrogen production	11:00
4	Fulvio De Paola	Adsorption properties of a hybrid geopolymer toward Y^{3+} ions	11:10
5	Flavia Manuguerra	Marine Strategy Framework Directive: metal analysis in marine sediments	11:20
6	Giarita Ferraro	Binding of $[V_4O_{12}]^{4-}$ and Unprecedented $[V_{20}O_{54}(NO_3)]^{n-}$ to Lysozyme	11:30
7	Rosanna Paparo	Process intensification for removal of new pharmaceutical compounds from water	11:40
8	Alessio Occhicone	Designing carbon nanoparticles-diatomite hybrids for wastewater remediation	11:50
9	Salvatore Impemba	$In_2O_3@TiO_2/Cu_2O$ for H_2 development by solar energy	12:00
10	Carla Serri	Silibinin-loaded amphiphilic nanoparticles: A promising drug delivery system for lung cancer therapy	12:10
11	Lucia Sessa	Experimental and Theoretical Insights into a Novel Lightfast Thiophene Azo Dye	12:20
12	Michele Emanuele Fortunato	Kinetic investigation of Silybin A/B chemo-enzymatic acetylation in a flow milli-reactor	12:30



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SESSIONE I.C			
N	Oratore	Titolo Presentazione	Orario
1	Clementina Acconcia	Structural and dynamic insight into the MT1 activation mechanism	10:40
2	Ester Colarusso	Identification of 1-ethyl-1H-pyrazolo[3,4-b]pyridine-based compounds as new BRD9 binders	10:50
3	Maria della Valle	Understanding the PED/PEA15-Phospholipase D1 interaction mechanism in type II diabetes through NMR spectroscopy	11:00
4	Bianca Fiorillo	Structural Insights into the Agonist Mechanism of Action of Tetracyclic Antidepressants on Serotonin Receptors	11:10
5	Rosa Gaglione	Bioactive peptides hidden in human endopeptidases: the case of three novel cryptides identified in metalloproteinase 19 by a computational-experimental platform	11:20
6	Gabriella Pinto	Molecular fingerprint by omics-based approaches in saliva from patients affected by SARS-CoV-2 infection	11:30
7	Lucia Santorelli	Cross-linking Mass Spectrometry to decipher Cell Plasma Membrane Interactome	11:40
8	Gianluca D'Abrosca	Circular oligomers formed by Ros/MucR family members act as mediators of DNA condensation in α -proteobacteria	11:50
9	Claudia Finamore	Synthesis and interactome characterization of a novel cytotoxic quinazolinone library	12:00
10	Angela Di Somma	The antimicrobial peptide Temporin-L induces vesicle formation and reduces the virulence in <i>S. aureus</i>	12:10
11	Giovanna Valentino	NMR-based strategies for the rapid identification and characterization of anticancer specialized metabolites from Mediterranean Asteraceae species	12:20
12	Maria Carmina Scala	Rational design of novel peptidomimetics against influenza A virus biological and computational studies	12:30



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SESSIONE II.A			
N	Oratore	Titolo Presentazione	Orario
1	Giovanna Aquino	Leaves for Life: Sustainable Green Extraction of Nutraceuticals from Agri-Food Waste	14:00
2	Francesco Taddeo	Ethyl levulinate ketalization with glycerol: from batch to continuous operation	14:10
3	Valentina Gargiulo	Possibilities and perspectives in the hybridization of metal organic frameworks (MOFs) with non-conventional graphene related material	14:20
4	Alessia Giannattasio	Polyethylene and polysiloxane persisting on surface seawater and in wastewater treatment plants: recovery, ponderal quantification, microstructural analyses and origin investigation	14:30
5	Alessandra Sessa	Comparative life cycle assessment of different synthetic routes of ZIF-8	14:40
6	Lorenzo Marino Cerrato	Development of a HPLC-MS/MS method for the characterization and quantification of intact glucosinolates in <i>Catozza</i> rapeseeds	14:50
7	Marco Morelli	Structural effects of the protein corona formed on different nanoparticles in the coelomic fluid of the sea urchin <i>Paracentrotus lividus</i>	15:00
8	Martina Pierri	Development of dual BRD9/HDAC hybrid ligands as novel epigenetic probes	15:10
9	Pasquale Rapacciuolo	Harnessing the isoxazole core to achieve hybrid LIFR-FXR modulation	15:20
10	Ciro Romano	Transition Metal-Catalysis for the Manipulation of Molecular Structure	15:30



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SESSIONE II.B			
N	Oratore	Titolo Presentazione	Orario
1	Michele Costanzo	Multi-level proteomics defines multiple unbalances in methylmalonic acidemia	14:00
2	Simona Marzano	Unlocking the potential of protein-derived peptides to target G-quadruplex DNA: From recognition to anticancer activity	14:10
3	Elva Morretta	Functional proteomics-aided interactome analysis of bioactive pyrazolyl-ureas	14:20
4	Valeria Nele	mRNA-loaded Self-assembling Nanoparticles as Novel Vaccine Formulations	14:30
5	Maria Petrone	New Promising Curcumin Mimics as Neurodegenerative Hallmarks Rescuers	14:40
6	Vincenzo Piccolo	Optimization of Ursolic Acid Enriched-Oleolytes from Annurca Apple with Potential Depigmentation Activity	14:50
7	Mariantonietta Pizzella	Biomimicking amyloid aggregates for self-assembling biomaterials	15:00
8	Anna Illiano	Amino acid quantification by mass spectrometry without derivatization to characterize campanian cheeses	15:10
9	Verdiana Covelli	Probing FPPS enzyme inhibition: a multidisciplinary approach	15:20
10	Francesco Zaccaria	Quantitative analysis of self-diffusion coefficients (Dt): a semi-empirical model for aqueous solutions	15:30



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SESSIONE II.C			
N	Oratore	Titolo Presentazione	Orario
1	Rosa De Gregorio	Drug repositioning a valid strategy for the identification of a new LIFR antagonist	14:00
2	Concetta Di Natale	Innovative ultra-sensitive detection of neurodegenerative biomarkers by the pyro-electrohydrodynamic jetting	14:10
3	Sara La Manna	Transition metal complexes versus amyloid aggregation: new potential therapeutic strategies in neurodegeneration	14:20
4	Panagiota Kalligiosfyri	Paper-based assay utilizing sequence-specific dye for the colorimetric detection of TATA box	14:30
5	Andrea Rispo	Compatibilization of Isotactic Polypropylene (iPP) and Polyethylene (PE) with PP-based Block Copolymers	14:40
6	Fabrizio Villapiano	Thermosensitive in situ gelling poloxamers/hyaluronic acid gels for hydrocortisone ocular delivery	14:50
7	Ilaria Grimaldi	Stereoselective Polymerization of 1- Vinylcyclohexene and (S)-4-Isopropenyl-1-Vinyl-1-Cyclohexene and their Copolymerization with Styrene and Terpenes	15:00
8	Silvia Arino	Harnessing antimicrobial peptides in polymer membranes for water purification	15:10
9	Matilde Tancredi	Biosurfactant for eco-sustainable formulations: rhamnolipids as multifunctional component	15:20
10	Natalia Ventserova	Exploring Equilibria between Monomeric and Oligomeric species involved in Prion diseases	15:30



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SESSIONE III.A			
N	Oratore	Titolo Presentazione	Orario
1	Giuseppe Femina	HNBR crystallization behavior under stretching: comparison between a semi-crystalline and an amorphous samples	16:30
2	Sara Vllahu	Highly efficient synthesis of zeolitic imidazolate framework-8	16:35
3	Antonietta Mollo	Innovative Oxoindoline Glutamine Mimic: Design and Synthesis of Peptidomimetic Inhibitors for SARS-CoV-2 3CLpro	16:40
4	Alessia Alberico	Design and Synthesis of a Novel Glutamine Mimetic Spiropyrrolidinone-Based P1 Moiety for M ^{pro} Inhibitors	16:45
5	Ciro Migliaccio	Alkaline and acid Red mud-Metakaolin based geopolymers for adsorption of methylene blue	16:50
6	Emanuela Rizzo	Analysis of post-translational modifications (phosphorylation and N-Glycosylation) in proteins extracted from Tempera paintings	16:55
7	Wanda Cimmino	A printed electrochemical strip to evaluate nanovectors encapsulation	17:00
8	Anastasia Ferraro	A promising class of SARS-CoV-2 Mpro inhibitors: Spiropyrrolidinone-based compounds	17:05
9	Marica Chianese	Photodegradation kinetics of ibuprofen promoted by Fe-CeO ₂ catalysts active under visible light	17:10
10	Raffaele Marzocchi	Synthesis and characterization of β -myrcene/styrene and β -ocimene/styrene copolymers	17:15
11	Salvatore Mottola	Nucleobase functionalized peptides: a new strategy for targeting ATP and GTP in cancer cells	17:20
12	Angela Sorice	NMR-based profiling isolation and structural elucidation of potentially bioactive oleanane saponins from <i>Bellis sylvestris</i> Cyr.	17:25
13	Gennaro Battaglia	Mass spectrometry methods for the evaluation of saffron activity in retinal diseases	17:30
14	Annalisa De Cicco	Synthesis of new organocatalysts based on cyclic peptoids	17:35
15	Giuseppe De Marino	Ammonia Decomposition Using a Red Mud-Based Geopolymeric Catalyst for CO _x -Free Hydrogen Production	17:40
16	Francesca Fantasma	Phytochemical analysis of essential oil and methanolic extract from leaves of wild <i>Origanum vulgare</i> L. from central Italy, <i>in vitro</i> antioxidant activity and on HepG2 cell line	17:45
17	Fabiana Tescione	Engineered silica nanoparticles for wastewater remediation	17:50
18	Simone Davide	Compatibilization of isotactic polypropylene (iPP)/polyethylene (PE) blends with iPP-graft-PE copolymers	17:55
19	Carlo Carandente Coscia	Innovative Formulations for Agricultural Applications	18:00
20	Angelo Santoro	New A β (1-42)ligands from anti-amyloid antibodies: Design, synthesis, and structural interaction	18:05



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21	Ersilia Villano	Production of hybrid lipid/polymer nanoplatforms for RNA delivery by an emulsion-solvent diffusion technique: from benchtop to microfluidics	18:10
22	Emanuele Carrella	Metal-free synthesis of selenoglycosylated eumelanin monomers	18:15
23	Alessia Cugudda	Cyclic peptidomimetics as suppressor of cytokine signalling 1 (SOCS1)	18:20



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SESSIONE III.B			
N	Oratore	Titolo Presentazione	Orario
1	Ilaria Neri	Alternative tools for rapid and high throughput assessment of transdermal passage	16:30
2	Miriam Di Martino	Cationic Azobenzenes as Light-Responsive Crosslinkers for Alginate-Based Supramolecular Hydrogels	16:35
3	Nicola Grasso	Exploring the interaction between DNA G-quadruplexes and an RG-rich peptide	16:40
4	Claudia González Castro	Mimics of glutathioneperoxidase: selenoglycoconjugates	16:45
5	Francesco Viceconte	Novel sulfonated n-heterocyclic carbene silver(I) and gold(I) complexes in a ³ -coupling catalysis	16:50
6	Angelo Fenti	Continuous-flow electrochemical oxidation of nitrogen compounds in livestock manure with an innovative reactor: The RiduciN Project	16:55
7	Danila La Gioia	Enhancing Sensitivity and Robustness in Untargeted Metabolomics: Microbore UHPLC-HRMS Approach	17:00
8	Paolo Scognamiglio	Valorization and Metabolomic Analysis of Trub as a Sustainable Resource for the Pharmaceutical and Food Sector: A Circular Approach	17:05
9	Andrea Criscuolo	Dimer optimization of G-quadruplex-forming aptamers	17:10
10	Claudio Clemente	Metal–Organic Framework-derived ZnO with Enhanced Ethanol Sensing Properties	17:15
11	Luciana Cimino	Invasive seaweeds and their hybrids as natural sorbent for wastewater remediation	17:20
12	Matteo Delli Carri	Metabolic Profiling of Plasma Distinguishes Indolent from High-Grade IPMNs using GC-MS	17:25
13	Gilda D'Urso	Metabolomic Profiling of Fecal Samples from Breastfed Late Preterm Infants Compared to Those Fed Postbiotic-Supplemented Formula Milk	17:30
14	Dafne Ruggiero	A Multidisciplinary Strategy for the Identification of a Novel Thiadiazolopyrimidone Targeting Annexin A6	17:35
15	Lucio Spinelli	Optimization of a Nanoparticles Protein Corona Isolation and Identification Platform using Omics	17:40
16	Emmanuel De Gregorio	Polybenzimidazole-based electrospun membranes for fuel cell application	17:45
17	Alessandro Salvati	GC analysis and microbiological analysis of lemon essential oils stored for 25 years	17:50
18	Niloufar Keivani	Optimized Extraction of Phenolics and Procyanidins from Seven Medicinal Herbs for Nutraceutical Development	17:55
19	Giuseppe Caso	Campanian particulate matter source apportionment	18:00



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20	Alessandra Capuano	Target Discovery of Natural Myrianthic Acid Through Label-Free Proteomics and Mass Spectrometry Approach	18:05
21	Maddalena Paolillo	Non-covalent Interactions with Proteins of Potential Vanadium Drugs: The Case of the Lysozyme/VIVO-8-hydroxyquinoline adduct	18:10
22	Michela De Luca	Methylene blue adsorption from aqueous matrix on geopolymer-based substrates	18:15
23	Armando Astone	Catalytic Asymmetric Approach to 1,3,4,5-Tetrahydro-1,4-benzodiazepin-2-ones in One-Pot	18:20



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SESSIONE IIL.C			
N	Oratore	Titolo Presentazione	Orario
1	Carolina Fontanarosa	POPs determination in serum and semen of contaminated areas of northern Italy	16:30
2	Michele Spinelli	Lanthionine determination in serum of patients affected by Chronic Kidney Disease by Multiple Reaction Monitoring	16:35
3	Vadym Samukha	Metabolomic Analysis of Malus domestica (Suckow) Borkh. Varieties From Molise Region (Italy) by NMR Spectroscopy	16:40
4	Francesca Scala	Targeting c-Myc: Discovery and Enhancement of New Diphenyl Urea-Based Inhibitors for Cancer Treatment	16:45
5	Carla Aliberti	Improving the Biological Properties of Thrombin-Binding Aptamer by Incorporation of 8-Bromo-2'-Deoxyguanosine and 2'-Substituted RNA Analogues	16:50
6	Martina Ridinò	Bile acid derivatives as LIFR/LIF inhibitors	16:55
7	Anna Guadagni	Discovery Of A New Potent And Selective Histone Deacetylase 6 Inhibitor In Triple Negative Breast Cancer Treatment	17:00
8	Daniela Benigno	G-Quadruplex Aptamers as Promising Inhibitors of the STAT3 Signaling Pathway	17:05
9	Maryam Kamarehei	Development of peptide-based molecular strategies to interfere with protein misfolding and aggregation of prion	17:10
10	Rosanna Lucignano	Globular proteins as suitable tool to obtain amyloid fibrils	17:15
11	Michela Buonocore	Investigation of the disassembly/reassembly mechanism of a human-derived recombinant ferritin	17:20
12	Martina De Rosa	Identification of Ligands targeting Gs protein by Ligand-based NMR spectroscopy	17:25
13	Brunella Cipolletta	Binder-pigment interaction by proteomic approaches	17:30
14	Mattia Cammarota	Natural products from poly-extremophilic marine fungi in the treatment of emerging infectious diseases	17:35
15	Erica Gazzillo	Identification of new c-Myc binders through a combined in silico and STD/NMR-based approach	17:40
16	Michela Aliberti	Virtual screening of 3-(1H-1,2,3-triazol-1-yl)piperidine-2,6-dione-based compounds as new potential Cereblon modulators amenable for targeted protein degradation	17:45
17	Carlo Raucci	2D-NMR in structural elucidation of specialized metabolites from Trichoderma spp. bioactive fractions	17:50
18	Stefania Serpico	A rapid liquid chromatography/mass spectrometry method to identify promising protein biomarker of COVID-19 infection	17:55
19	Flavia Conte	Validation of analytical methods for trace elements determination in biological matrices	18:00
20	Enza Napolitano	Analyzing nicotine protection mechanism against amyloid toxicity by NMR-metabolomics: an exploratory study	18:05



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21	Simone Braccia	Peptide-based nanofibers for a selective drug delivery in glioblastoma treatment	18:10
22	Antonella Vitiello	HP β CD Impact on Zein Edible Films for Food Packaging	18:15