

Programma dei LAVORI di DIVISIONE - 23 settembre mattina

Divisione CHIMICA ANALITICA (ANA)

ANA13

09.30 - 09.50	ANA IL009	Anna Laura Capriotti	<i>The progress in peptidomics: new strategies for purification and untargeted identification of short peptides</i>
09.50 - 10.00	break		
10.00 - 10.15	ANA OR104	Adriana Arigò	<i>Analytical methods in clinical lipidomics: HPLC and SFC comparison for the analysis of lipid mediators in clinical samples</i>
10.15 - 10.30	ANA OR105	Alfonsina D'Amato	<i>nLC-MS/MS data integration of quantitative proteomics and lipidomics to study the effects of bioactive compounds</i>
10.30 - 10.45	ANA OR106	Chiara De Luca	<i>Multicolumn Countercurrent Solvent Gradient Purification (MCSGP) process for the intensification of the polishing step of a bioactive peptide mixture</i>
10.45 - 11.00	ANA OR107	Dounia El Fadil	<i>Enzyme inhibition coupled to Molecular Imprinted Polymers for acetazolamide determination in biological samples</i>
11.00 - 11.15	ANA OR108	Alessio Lenzi	<i>Determination of salivary short chain fatty acids and hydroxy acids in heart failure patients by in-situ derivatization and Hisorb-probe sorptive extraction coupled to thermal desorption and gas chromatography- tandem mass spectrometry</i>
11.15 - 11.30	ANA OR109	Marcello Manfredi	<i>Metaproteomics and metabolomics investigation of microbiome alterations in pediatric obese subjects</i>
11.30 - 11.45	ANA OR110	Francesca Merlo	<i>A simple and Fast Multiresidue Method for determination of hormones in vegetables and fruits</i>
11.45 - 12.00	ANA OR111	Giuseppe Micalizzi	<i>Microwave distillation technique for the isolation of Cannabis Sativa L. essential oils and GC-MS/FID analysis for terpenes and terpenoids characterization.</i>
12.00 - 12.15	ANA OR112	Daniele Naviglio	<i>"Cholesterol is not considered a nutrient of concern for overconsumption" (Dietary Guidelines for Americans 2015)</i>

ANA14

09.30 - 09.50	ANA IL010	Nicola Cioffi	<i>Analytical Challenges in the Fight Against Biological Threats. The case of Nanoantimicrobials Inhibiting the Persistency of SARS-CoV-2</i>
09.50 - 10.00	break	break	
10.00 - 10.15	ANA OR113	Maria Luisa Astolfi	<i>A rapid analytical method for the determination of 45 elements in extra-virgin olive oils</i>

23 settembre - mattina

10.15 - 10.30	ANA OR114	Laura Barone	<i>Innovative spectroscopic approach for bloodstains identification</i>
10.30 - 10.45	ANA OR115	Deborah Biggio	<i>Surface characterization of CuZn37 alloys in contact with artificial saliva: the role of organic compounds</i>
10.45 - 11.00	ANA OR116	Beatrice Campanella	<i>A multi-analytical approach for the study of immortalized hippocampal neurons after mild heat shock</i>
11.00 - 11.15	ANA OR117	Roberta D'Agata	<i>Ultrasensitive plasmonic assay and specifically-designed PNA probes for circulating microRNAs detection: towards a liquid biopsy</i>
11.15 - 11.30	ANA OR118	Danilo Donnarumma	<i>Identification and quantification of toxic compounds and essential molecules in the context of tuna fishery industry waste valorization</i>
11.30 - 11.45	ANA OR119	Walter Giurlani	<i>Film thickness determination of metal multilayers by XRF multivariate analysis using Monte Carlo simulated standards</i>
11.45 - 12.00	ANA OR120	Giulia Gorla	<i>Low-cost miniaturized NIR spectrometer as an analytical tool for monitoring kefir fermentation process</i>
12.00 - 12.15	ANA OR121	Min Li	<i>XAS study of Manganese Hexacyanoferrate cathode material in aqueous Zn-ion batteries at three K-metal edges</i>
12.15 - 12.30	ANA OR122	Maria Chiara Sportelli	<i>Analytical characterization of laser-ablated silver nanoparticles for safe and biodegradable food packaging applications</i>

ANA15

09.30 - 09.50	ANA OR123	Raffaella Biesuz	<i>SAFER Smart Labels at work on fish</i>
09.50 - 10.00	break		
10.00 - 10.15	ANA OR124	Sara Gaggiotti	<i>Liquid phase exfoliated Transition Metal Dichalcogenides for gas sensing</i>
10.15 - 10.30	ANA OR125	Laura Montali	<i>A clover-like paper biosensor for mercury (II) on-site monitoring with a combined bioluminescent-colorimetric detection</i>
10.30 - 10.45	ANA OR126	Andrea Pastore	<i>pH Colorimetric sensor Arrays based on acid-base indicators enhanced by surfactants</i>
10.45 - 11.00	ANA OR127	Angela Punzo	<i>Application of whole-cell analytical bioassay based on turn-on chemiluminescence dioxetane probe sensing to quantify intracellular H₂O₂ in nutraceutical and biomedical fields</i>
11.00 - 11.15	ANA OR128	Simona Ranallo	<i>Non-natural antibody-protein communication mediated by a synthetic DNA responsive device</i>

23 settembre - mattina

11.15 - 11.30	ANA OR129	Annalisa Scroccarello	<i>Colorimetric paper-based analytical device for direct evaluation of olive oil phenols</i>
11.30 - 11.45	ANA OR130	Francesca Torrini	<i>A competitive microplate bioassay to detect gonadorelin in urine samples via a polynorepinephrine-based molecular imprinted polymer</i>
11.45 - 12.00	ANA OR131	Mohamad Ahmad	<i>A spatial perspective to retrieve spatial-spectral signatures from overlapped components in spectroscopic imaging data</i>
12.00 - 12.15	ANA OR132	Rosalba Calvini	<i>Quantification of rind percentage in grated Parmigiano Reggiano cheese by NIR-hyperspectral imaging and evaluation of the effect of factors related to sample preparation and composition</i>
12.15 - 12.30	ANA OR133	Eleonora Mustorgi	<i>Multivariate online monitoring of a powder blending process using a miniaturized near infrared sensor</i>

Divisione CHIMICA FISICA (FIS)

FIS 10

Physical Chemistry of Biomaterials

09:30-10:00	FIS KN012	Roberto De Santis	<i>Design for biointerface engineering</i>
10:00-10:30	FIS KN013	Julietta Rau	<i>New trends in the development of biomedical implants with multifunctional surfaces</i>
10:30-10:45	FIS OR096	Monica Dettin	<i>Chitosan covalently functionalized with peptides mapped on Vitronectin and BMP-2 for bone tissue engineering</i>
10:45-11:00	FIS OR097	Angela De Bonis	<i>Study of the bioactivity of thin glass-ceramic films deposited on electrospun polymeric scaffolds by nanosecond PLD</i>
11:00-11.15	FIS OR021	Lorenzo Degli Esposti	<i>Crystallization of amorphous calcium phosphate to hydroxyapatite nanoparticles: new insights in the field of biomaterials and biomineralization</i>
11:15-11.30	FIS OR099	Alessio Carmignani	<i>Study of the impact of size on the properties of polydopamine nanoparticles and their interaction with glioblastoma multiforme cells</i>

Computational and Applied Chemistry

11.45-12.00	FIS OR100	Laura Orian	<i>Methylmercury toxicity: insight from a theoretical physical-chemical description</i>
12:00_12:15	FIS OR101	Marta Corno	<i>Ab-initio modelling of Fe₂NiP-H₂O interaction: a phosphate factory for Early Earth</i>
12:15-12.30	FIS OR102	Mirko Leccese	<i>First-principles study of the C/Si interface: the influence of graphene corrugation on the H adsorption and abstraction reactions</i>

23 settembre - mattina

12:30-12:45	FIS OR103	Brunella Bardi	<i>Excited-state symmetry breaking in an aza-nanographene dye</i>
12:45-13:00	FIS OR104	Rosangela Santalucia	<i>HCN adsorption and reactivity at the Mg₂SiO₄ surface: a laboratory model of the chemistry on interstellar dust grains</i>

FIS 11

Physical Chemistry for Environment and Materials I

09:30-10:00	FIS KN014	Cataldo Simari	<i>Reversible and low-cost CO₂ capture by quaternary-ammonium-functionalized aromatic polymers</i>
10:00-10:15	FIS OR105	Claudio Cara	<i>High value-added mesostructured silica from hexafluorosilicic acid (FSA): from a hazardous waste to precious silicon source.</i>
10:15-10:30	FIS OR106	Rodolfo Esposito	<i>A sustainable approach to formulation chemistry: structure and dynamics of bio-based complex mixtures</i>
10:30-10:45	FIS OR107	Mariafrancesca Baratta	<i>Photocatalytic degradation of organic pollutants in water using an innovative TiO₂/SWNT membrane</i>
10:45-11:00	FIS OR108	Chiara Lo Porto	<i>Plasma deposition of TiO₂-based nanocomposite coating for photocatalytic degradation of organic pollutants in water</i>
11:00-11:15	FIS OR110	Stefano Marchesi	<i>The NMR relaxometry as a powerful tool to study the uptake of paramagnetic ions from water by synthetic saponite clays</i>
11:15-11:30	FIS OR109	Giulia Siciliano	<i>Synthesis and characterization of polydopamine coated SPIONs for Cu²⁺ ions removal of from water</i>
11:30-11:45	break		

Physical Chemistry for Environment and Materials II

11:45-12:00	FIS OR111	Nicola Blangetti	<i>Template assisted sol-gel synthesis of Fe-doped TiO₂ with photocatalytic activity under visible light</i>
12:00_12:15	FIS OR112	Chiara Nannuzzi	<i>Physico-chemical characterization of high surface area TiO₂</i>
12:15-12:30	FIS OR113	Massimo Dell'Edera	<i>Nano-TiO₂ based material for environmental and antibacterial application</i>
12:30-12:45	FIS OR114	Marco Montalbano	<i>Combining Morphology, Surface Fluorination and Au Nanoparticles Deposition on TiO₂: Effects on Rhodamine B Photodegradation</i>
12:45-13:00	FIS OR115	Maria Francesca Colella	<i>Chemical-physical methods to investigate properties of vegetable oils and fats</i>
13:00-13:30	Conclusioni		

FIS 12***Thermodynamics and Kinetics I***

09:30-10:00	FIS KN015	Andrea Scorciapino	<i>Development of a thermodynamic and kinetic model for passivemigration of ion carriers across lipid bilayers</i>
10:00-10:15	FIS OR116	Marco Paolantoni	<i>When the Solute is Completely Slaved to the Solvent: Jump Reorientation of Formamide in Water</i>
10:15-10:30	FIS OR117	Federico Rossi	<i>Shape Transformation of Artificial Vesicles Induced by an Interplay between Osmosis and pH Change</i>
10:30-10:45	FIS OR118	Martina Maria Calvino	<i>Shelf-life prediction of paracetamol formulations by non-isothermal thermogravimetry</i>
10:45-11:00	FIS OR119	Chiara Pelosi	<i>Stability of protein-polymer conjugates in solution</i>
11:00-11:15	FIS OR120	Stefano Salvestrini	<i>Kinetics and mechanism of 4-hydroxybenzoic acid degradation by persulfate/MnO₂ oxidation</i>
11:15-11:30	FIS OR121	Valentina Migliorati	<i>Unraveling the solvation properties of Lanthanide (3+) ions: from molecular solvents to Ionic Liquid based systems</i>

Thermodynamics and Kinetics II

11:45-12:00	FIS OR122	Marcello Budroni	<i>Between dissipative structure and applications: chemical oscillations</i>
12:00_ 12:15	FIS OR123	Olga Russina	<i>NATURE OF SOLVATION OF CYCLODEXTRINS IN (PROTIC) IONIC LIQUIDS AND DEEP EUTECTIC SOLVENTS</i>
12:15-12:30	FIS OR124	Duccio Tatini	<i>Specific ions effects in green oleate-based formulations: how salts can influence the structure and rheology of viscoelastic systems</i>
12:30-12:45	FIS OR125	Marianne Moedlinger	<i>Structures and phase equilibria in the ternary Cu-As-Sb system (a preliminary investigation)</i>
12:45-13:00	FIS OR126	Alessandro Damin	<i>Cu⁺ bi-pyridine based homoleptic complexes as catalysts for partial oxidation reactions: a Raman study</i>

Divisione CHIMICA INDUSTRIALE (IND)**IND 06**

09.30 - 10.00	IND KN008 Medaglia Mario Giacomo Levi	Siglinda Perathoner Gaetano Iaquaniello	<i>Waste-to-chemicals: a low-carbon innovative solution for circularity</i>
10.00 - 10.10	IND OR060	Stefania Lucantonio	<i>Experimental study of interactions between biomass pellets and oxygen carriers for chemical looping gasification in fluidized beds</i>

23 settembre - mattina

10.10 - 10.20	IND OR061	Lucia Fagiolari	<i>Electrodes and electrolytes for aqueous dye-sensitized solar cell</i>
10.20 - 10.30	IND OR062	Francesca Rosso	<i>Carbon Dioxide Absorption Mechanism in Biocompatible Ionic Liquids Solutions</i>
10.30 - 10.40	IND OR063	Giuliano Giambastiani	<i>"To Dissipate or not to Dissipate extra-Heat? This Is the Question!" How to Reduce Energy Wastes in a Challenging Process at the Heart of P2G Chain</i>
10.40 - 10.50	IND OR064	Matteo Borella	<i>A study of Kraft lignin conversion and possible upgrading to valuable compounds</i>
10.50 - 11.05	Discussion		
11.05 - 11.20	break		
11.20 - 11.40	IND KN009	Paolo Vacca	<i>New generation of specialty zeolites for sustainable chemistry</i>
11.40 - 11.50	IND OR065	Giorgio Ferrari	<i>Multifunctional Hardening Accelerator for Low-Clinker Binders</i>
11.50 - 12.00	IND OR066	Rosa Vitiello	<i>Optimization of HASE polymers effect in formulation of cement using Design of Experiment</i>
12.00 - 12.10	IND OR067	Matteo Guidotti	<i>Are Aqueous Hydrogen Peroxide and Sodium Percarbonate Efficient in the Inactivation of SARS-CoV 2?</i>
12.10 - 12.20	IND OR068	Carlo Pirola	<i>Chemical Plants Active Learning by Virtual Immersive Laboratory: the Eye4edu Project</i>
12.20 - 12.30	IND OR069 Premio Tesi di Dottorato	Veronica Papa	<i>Manganese- and Cobalt Based Catalysts for Homogeneous Hydrogenation</i>
12.30 - 12.40	IND OR070	Elena Ghedini	<i>Biomasses, Drug Delivery and Hi-Tech formulative protocols</i>
12.40 - 12.50	IND OR071	Maryam Hmoudah	<i>Assessment of the robustness of iron-based metal organic framework (MIL-88A) in aqueous environment</i>
12.50 - 13.00	Discussion		

Divisione CHIMICA INORGANICA (INO)
INO 10

9.30 - 10.00	INO PZ009 (Premio Malatesta)	Roberta Sessoli	<i>The contribution of coordination chemistry to the second quantum revolution</i>
10.00 - 10.30	INO PZ010 (Premio Nasini 2021)	Edoardo Mosconi	<i>Computational Modeling of Perovskite for Photovoltaic Applications</i>
10.30 - 10.45	INO OR064- ad hoc	Iole Venditti	<i>Functionalized silver nanoparticles for water pollution monitoring: sensitivity, selectivity and the challenge of eco-safe behavior</i>

23 settembre - mattina

10.45 - 11.00	INO OR065	Diego Tesauro	<i>New aromatic NHC-gold complexes as anticancer agents: protein target evaluation and cytotoxic activity</i>
11.00 - 11.15	INO OR066	Farid Hajareh Haghghi	<i>Silane-functionalized TiO₂ nanoparticles decorated with Ag nanoparticles for dual antimicrobial effects</i>
11.15-11.30	break		
11.30 - 11.45	INO OR067	Francesca Tessore	<i>Porphyrins for second order nonlinear optics</i>
11.45 - 12.00	INO OR068	Annalisa Mariconda	<i>Sulfonated N-heterocyclic carbene silver(I) and gold(I) water soluble complexes: catalytic and cytotoxic activity</i>
12.00 - 12.15	INO OR069	Riccardo Freccero	<i>Widening the tin solid-state chemistry: unusual bonding scenario in the LaMgSn₂ rare-earth stannide</i>
12.15 - 12.30	INO OR070	Veronica Ghini	<i>NMR reveals the metabolic changes induced by Auranofin in ovarian cancer cells</i>
12.30 - 13.00	INO IL003	David P. Giedroc	<i>Metals, molecules and metabolism: Molecular mechanisms of bacterial metallostasis</i>

INO 11

10.30 - 10.45	INO OR071	Antonio Zucca	<i>Advances in Pt(II) rollover chemistry</i>
10.45 - 11.00	INO OR072	Marco Lunardon	<i>Hybrid transition metal dichalcogenide/graphene microspheres for hydrogen evolution reaction</i>
11.00 - 11.15	INO OR073	Silvia Mostoni	<i>Porphyrin functionalized ZnO/SiO₂ hybrid nanoparticles as scintillator agent</i>
11.15-11.30	break		
11.30 - 11.45	INO OR074	Alfonso Annunziata	<i>Square-planar vs. trigonal bipyramidal molecular geometry in glucoconjugate triazole Pt(II) complexes: synthesis, in-solution behaviour and anticancer properties</i>
11.45 - 12.00	INO OR075	Giada Mannias	<i>Iron(III) trimesate xerogel by ultrasonic irradiation</i>
12.00 - 12.15	INO OR076	Christian Rossi	<i>Exploiting the transformative features of metal halides for the synthesis of CsPbBr₃@SiO₂ core-shell nanocrystals</i>
12.15 - 12.30	INO OR077	Luciano Marchiò	<i>Supramolecular assemblies in silver bispyrazolylmethane complexes: phase transitions and the role of the halogen bond</i>

INO 12

10.30 - 10.45	INO OR078	Adolfo Speghini	<i>Fine-tuning of the size of luminescent CaF₂ nanoparticles</i>
10.45 - 11.00	INO OR079	Antonio Santoro	<i>Responsive Self-Assembled Dynamic Helicates</i>
11.00 - 11.15	INO OR080	Chiara Mazzariol	<i>Synthesis in confined space of luminescent nanostructures of undoped and Eu(III)-doped calcium molybdate</i>
11.15-11.30	break		
11.30 - 11.45	INO OR081	Marta Stucchi	<i>The synergistic and photochromic effect of Au nanoparticles on a Silver-waste derived TiO₂ photocatalyst</i>

23 settembre - mattina

11.45 - 12.00	INO OR082	Diego Olivieri	<i>Efficient palladium catalyzed bis-alkoxycarbonylation of olefins for the synthesis of useful succinic acid derivatives</i>
12.00 - 12.15	INO OR083	Luca Rigamonti	<i>Multivariate approach to the analysis of structural data of iron(II) spin crossover complexes and cobalt(II) single molecule magnets</i>
12.15 - 12.30	INO OR084	Simonetta Geninatti	<i>Histidine containing PLGA nanoparticles as novel theranostic agents for Boron Neutron Capture Therapy</i>

Divisione CHIMICA ORGANICA (ORG)

ORG 19

9.30 - 10.00	ORG PZ003	Pierangelo Metrangolo	Medaglia Giorgio Modena <i>A Journey through the Word of Halogen Bonding</i>
10.00 - 10.30	ORG PZ008	Jacopo Roletto	Premio alla ricerca Chimica Organica per lo Sviluppo di Processi e Prodotti nell'Industria <i>The art of Process Development in API manufacturing</i>
10.30 - 10.45	ORG OR124	Andrea Sartori	<i>Dual Conjugates Targeting $\alpha V\beta 3/\alpha V\beta 6$ Integrins and Tyrosine Kinase Receptors as antifibrotic agents</i>
10.45 - 11.00	ORG OR125	Angela Scala	<i>Synthesis and biological profile of novel three-arms star-shaped PLA-PEG amphiphilic copolymers</i>
11.00 - 11.15	ORG OR126	Monica Scognamiglio	<i>Isolation and structural elucidation of oleanane saponins from <i>Bellis sylvestris</i> Cyr. involved in plant-plant chemical interactions</i>
11.15 - 11.30	ORG OR127	Alba Silipo	<i>Herbaspirillum Root189 LPS glycan chain decorations affect LPS bioactivity, membrane properties and prevent plant immune recognition</i>
11.30 - 12.00	Break		
12.00 - 12.15	ORG OR128	Laura Siracusa	<i>Secondary metabolic profiles and anticancer actions from fruit extracts of immature pomegranates</i>
12.15 - 12.30	ORG OR129	Rachele Stefania	<i>Enhanced relaxivity by hydrophobic interactions of macrocyclic Gd-HPDO3A complexes linked to pyranine</i>
12.30 - 12.45	ORG OR130	Luca Valgimigli	<i>Oxygen Uptake Kinetics as a Powerful Tool to Investigate Tyrosinase Enzyme Inhibition</i>
12.45 - 13.00	ORG OR131	Danilo Vona	<i>Enzyme immobilization on polydopamine-coated living microalgae cells for bioremediation</i>

ORG 20

10.30 - 10.45	ORG OR132	Matteo Corrieri	<i>Metal-Free Synthesis of Azacarbolines Enabled by Hypervalent Iodine-Promoted Intramolecular Oxidative Cyclization</i>
---------------	-----------	-----------------	--

23 settembre - mattina

10.45 - 11.00	ORG OR133	Federico Fratello	Functionalization of C-H bond using self-assembling supramolecular iron(II) complexes
11.00 - 11.15	ORG OR134	Andrea Gualandi	Photoredox allylation of aldehydes mediated by bismuth and cobalt
11.15 - 11.30	ORG OR135	Marco Lombardo	Visible Light Photocatalytic Synthesis of Oxygenated Heterocyclic Compounds
11.30 - 12.00	Break		
12.00 - 12.15	ORG OR136	Michela Lupi	A Hydrogen Bond Donor / Lewis Base (HBD/LB) catalytic route to enantioenriched hetero[4]helicenes
12.15 - 12.30	ORG OR137	Giulia Martelli	Fast Heck-Cassar-Sonogashira Cross-Coupling Reactions with Palladium Catalyst Recycling and Green Solvent/Base recovery
12.30 - 12.45	ORG OR138	Silvia Gazzola	2- and 6-Purinylmagnesium Halides in Dichloromethane: Scope and Insights Into the Solvent Influence on the C- Mg Bond
12.45 - 13.00	ORG OR139	Angelo Nacci	Nanostructured catalysts for a circular economy

ORG 21

10.30 - 10.45	ORG PZ015	Gabriele Laudadio	Premio Tesi di Dottorato Chimica Organica nei suoi Aspetti Metodologici New synthetic methods enabled by photochemistry and electrochemistry in flow
10.45 - 11.00	ORG OR140	Andrea Francesca Quivelli	Mild Approaches for Copper-Catalysed Coupling Reactions: Ligand-Free Ullmann-type C–N and C–O Bond Formation in Deep Eutectic Solvents
11.00 - 11.15	ORG OR141	Marco Rabuffetti	Stereoselective monoreduction of bulky 1,2-dicarbonyls catalyzed by a benzyl reductase from <i>Pichia glucozyma</i> (KRED1-Pglu)
11.15 - 11.30	ORG OR142	Daniele Ragno	Regiodivergent Isosorbide Acylation by Oxidative NHC-Catalysis in Batch and Continuous-Flow
11.30 - 12.00	Break		
12.00 - 12.15	ORG OR143	Giorgio Rizzo	Palladium anchored on Silk Fibroin as suitable catalyst for Suzuki-Miyaura Cross-Coupling Reactions
12.15 - 12.30	ORG OR144	Patrizio Russo	Novel Synthesis of Thienofuranone Derivates by Pd-Catalyzed Carbonylation Reaction
12.30 - 12.45	ORG OR145	Gabriele Lupidi	Vitamin B2 Promoted Tandem Nef-Henry Reactions for the synthesis of Symmetrical β -Nitro Alcohols from Nitroalkanes

23 settembre - mattina

12.45 - 13.00	ORG OR146	Ida Zicarelli	<i>Synthesis of Isobenzofuranones, Isochromenones and Thienopyranones by a Pd-Catalyzed Oxidative Carbonylation Approach</i>
---------------	------------------	----------------------	--