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 DIPARTIMENTO DI SCIENZE DELLA VITA E BIOTECNOLOGIE

## 3° PhD symposium – PROGRAM

Nuovi Istituti Biologici – Via Luigi Borsari 46

Tuesday, June 9, 2026 (aula E1)	
9:20 - 9:35	Welcome and Opening
9:35 - 10:40	<b>Section 1-</b> Chairman Prof. Alessandro Massi
9:35 - 10:00	<b>KN1:</b> "Harnessing chemical reactivity with AI: opportunities and threats" Dr. Paolo Dambrosio, Istituto per la Sintesi Organica e Fotoreattività (CNR) Bologna
10:00 - 10:20	O1: "Ammonia Photosynthesis Using Co and Fe polypyridine complexes" <b>Andrea Mantovani</b>
10:20 - 10:40	O2: "Development of benzothiazole-based multifunctional molecules for the treatment of skin diseases" <b>Leonardo Montani</b>
10.40 - 11:00	<b>Break</b>
11:00 - 12:25	<b>Section 2-</b> Chairman Prof. Mirco Natali
11:00 - 11:25	<b>KN2:</b> "Autonomously Fueled Light-Emitting Cycles: Evolution from Regenerative Chemiluminescence to Dissipative States" Prof. Alessandro Aliprandi Department of Chemical Sciences, UniPD
11:25 - 11:45	O3: "Challenges and Potentials of SFC as a Green Method in Peptide Separation" <b>Amirmohammad Faraji Shovey</b>
11:45 - 12:05	O4: "Characterisation of nanostructured hematite photoanodes for solar water splitting" <b>Anna Ianniello</b>
12:05 - 12:25	O5: "Development of diamino-terphenyl Covalent Triazine Polymers as visible-light heterogeneous photocatalysts" <b>Andrea Odoardo</b>
12:25 - 14:00	<b>Lunch break</b> (on your own)
14:00 - 15:25	<b>Section 3-</b> Chairman Prof.ssa Martina Catani
14:00 - 14:25	<b>KN3:</b> "The chemist in forensic police units: chemical investigations and beyond" Dott. Marco Visentin, Commissario Capo Tecnico della Polizia di Stato Gabinetto Interregionale Polizia Scientifica per il Triveneto
14:25 - 14:45	O6: "Porphyrin for photoprinting of ceramic materials" <b>Gioia Musiu</b>
14:45 - 15:05	O7(online): "7D Liraglutide: A GLP-1 RA in a Zinc-Rich Environment with High Proteolytic Resistance" <b>Gabriela Potoczniak</b>





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15:05 - 15:25	O8 (online): "From sunlight to fuels: Photoelectrochemical water oxidation and CO2 conversion to value-added molecules" <b>Alberto Magliocco</b>
15:25 - 15:45	<b>Break</b>
15:45 - 16:45	<b>Section 4-</b> Chairman Prof.ssa Gaia Colombo
15:45 - 16:10	<b>KN4:</b> "BEYOND TRADITIONAL TABLETS: 3D PRINTING IN PHARMACEUTICAL MANUFACTURING" Prof. Paola Russo Dipartimento di Farmacia/DIFARMA Università di Salerno
16:10 - 16:25	O9: "Data-independent acquisition-based proteome and phosphoproteome profiling for the analytical investigation of Hypericum Perforatum extract effects in melanoma cells" <b>Davide Barboni</b>
16:25 - 16:45	O10: "New drug delivery strategies" <b>Michele Albicini</b>
16:45 - 18:30	<b>Poster Presentations</b> (Poster list below)
17:30 - 18:30	<b>Closing and farewell buffet in front of Poster Area</b> (Chiostro Santa Maria delle Grazie, 2 <sup>nd</sup> floor, Poster list below)

**POSTER LIST** (Chiostro Santa Maria delle Grazie, 2<sup>nd</sup> floor)

P1	"A SCALING UP STUDY OF NANOSTRUCTURED LIPID CARRIERS FOR ORAL DELIVERY OF ANTIOXIDANT MOLECULES" <b>Sara Vita Asmundo</b>
P2	"Comparative targeted and untargeted metabolomics in Glera grapevine lines resistant to biotic stress using UHPLC-HRMS" <b>Paridokht Azizollahi</b>
P3	"Amino-Terphenyl Covalent Triazine Polymers as Visible-Light Heterogeneous Photocatalysts" <b>Laura Manfrin</b>
P4	"On-the-go SOC mapping through portable VIS-NIR/NIR sensors" <b>Leonardo Vario</b>
P5	"Evaluation of reversed-phase and hydrophilic interaction liquid chromatography adsorbents for the untargeted analysis of bioactive compounds in Hypericum Perforatum L." <b>Davide Barboni</b>
P6	"UHPLC-HRMS quantification of salicylic acid as a key marker of biotic stress resistance in Glera grapevine" <b>Kimia Khorrami</b>
P7	"Phase diagram construction for confined water in ZIF8 and ZIF7-8: an atomistic approach" <b>Matteo Bragagnolo</b>
P8	"Beyond Biogas: Unlocking the High-Value Potential of Tomato Processing Residues for food and cosmetics"



	<b>Ilenia Gugel</b>
P9	"Ammonia Photosynthesis Using Co and Fe polypyridine complexes" <b>Andrea Mantovani</b>
P10	"Development of benzothiazole-based multifunctional molecules for the treatment of skin diseases" <b>Leonardo Mantovani</b>
P11	"Challenges and Potentials of SFC as a Green Method in Peptide Separation" <b>Amirmohammad Faraji Shovey</b>
P12	"Design potent, selective, and long-acting NOP receptor agonists through multiple sequential D-amino acid substitutions of [Arg <sup>14</sup> Lys <sup>15</sup> ]N/OFQ(1-15)-NH <sub>2</sub> " <b>Giulio Meneguzzo</b>
P13	"1,2,3-Trimethoxypropane synthesis through a new chemo-enzymatic pathway" <b>Domenico Meola</b>
P14	"From trash to treasure: investigation of antioxidant potential and bioactive compounds in fruit waste by means of spectrophotometric methods and untargeted UHPLC-HRMS approaches" <b>Chiara Finotello</b>
P15	"NUTRITIONAL ENHANCED PROFILE OF FISH-BASED FOODS BY FUNCTIONAL FEED ENRICHMENT: A METABOLOMIC AND BIOACCESSIBILITY STUDY" <b>Nadia Baraldo</b>
P16	"Monitoring of Haematococcus pluvialis for natural astaxanthin production" <b>Alessia Liboni</b>
P17	"Recycle of <sup>64</sup> ZnO SPS targets for <sup>61</sup> Cu production: performance and purity assessment" <b>Giorgia Speltri</b>
P18	"Development of diamino-terphenyl Covalent Triazine Polymers as visible-light heterogeneous photocatalysts" <b>Andrea Odoardo</b>
P19	"Characterisation of nanostructured hematite photoanodes for solar water splitting" <b>Anna Ianniello</b>
P20	"Porphyrin for photoprinting of ceramic materials" <b>Gioia Musiu</b>
P21	"Sustainable sorbent materials for air sampling and thermal desorption applications" <b>Honnara Santos Granja</b>
P22	"Development and characterization of a submicron emulsion for systemic drug delivery of Urolithin A" <b>Nicholas Castaldini</b>
P23	"The utility of vacuum-assisted SPME prior GC-MS analysis for biological application" <b>Claudio Vulpio</b>
P24	"New drug delivery systems" <b>Michele Albicini</b>

