

Mid-Season
Sustainable
Pharmaceutical
Applications
Conference



MiSuSPharmA

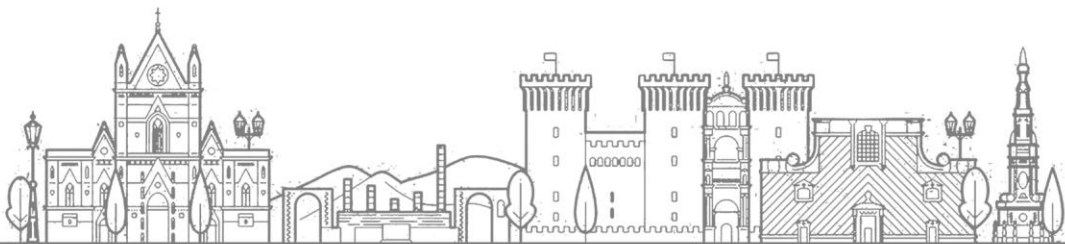
1ST EDITION



05 May 2025 | 06 May 2025



University of Naples Federico II
Department of Biotechnological Sciences



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Monday, May 5th

program 13:00 - 15:00

13:00 | 13:45

Registration

13:45 | 14:00

Opening Ceremony

14:00 | 14:30

Plenary lecture: Prof. Evelina Colacino

Associate Professor at Université de Montpellier
Institut des Matériaux Charles Gerhardt (ICGM):

*PL01- "SUSTAINABLE PREPARATION OF WHO
ESSENTIAL MEDICINES BY MECHANOCHEMISTRY"*

14:30 | 16:10

**Session 1: Ecosustainable Approaches in
Medicinal Chemistry**

Chairs: Margherita Brindisi and Lucia Tamborini

14:30 | 14:40

Giacomo Rossino _ University of Pavia:

*OC01- "Toward a green Heck reaction protocol to access
trisubstituted alkenes, useful pharmaceutical
intermediates"*

14:40 | 14:50

Simona Barone _ University of Naples Federico II:

*OC02- "Continuous Flow Synthesis and Sustainable
Joullié-Ugi Chemistry Yield Captopril-Inspired Broad-
Spectrum Metallo Beta-Lactamase Inhibitors"*

14:50 | 15:00

Giuseppina Truglio _ University of Siena:

*OC03- "Antibody Drug Conjugates with unconventional
payloads: the new frontier of precision medicine in
cancer therapy"*

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Monday, May 5th

program 15:00 - 16:45

15:00 | 15:10

Antonella Ilenia Alfano _ University of Naples Federico II:

OC04- "Modular Synthesis of benzoylpyridines exploiting a catalyst- free reductive arylation strategy"

15:10 | 15:20

Michela Puxeddu _ Sapienza, University of Rome:

OC05- "New Potential Carbonic Anhydrase Inhibitors as Dual-Target Anticancer Agents"

15:20 | 15:30

Emilia Cassese _ University of Naples Federico II:

OC06- "Harnessing the Passerini Reaction for Peptidomimetic Ciprofloxacin Derivatives: A Strategy to Overcome Antibiotic Resistance"

15:30 | 15:40

Maria Carmina Scala _ University of Salerno:

OC07- "Moving towards a sustainable development of therapeutic peptides"

15:40 | 15:50

Filippo Rosati _ University of Siena:

OC08- "A new sustainable protocol for in-water Suzuki Arylation mediated by sardinian black wool"

15:50 | 16:00

Carmen Cerchia _ University of Naples Federico II:

OC09- "Towards sustainable drug discovery: AI-driven de novo molecular design"

16:00 | 16:10

Oscar Trentin _ University of Venice Ca Foscari:

OC10- "Chitin-Derived Catalysts for Cross-Coupling Reactions: A Mechanochemical Approach"

16:15 | 16:45

Coffee break

SUN	MON	TUE	WED	THU	FRI	SAT
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Monday, May 5th

program 16:50 - 17:40

16:50 | 18:05

Session 2: Sustainable Natural Substances for Wellness

Chairs: Sonia Laneri and Assunta Tortora

16:50 | 17:00

Deborah Freschini _ University of Bari Aldo Moro:

OC11- "Valorization of pomegranate peel: hydrolytic extraction and biological activity on AGS cells"

17:00 | 17:10

Daniele Giuseppe Buccato _ University of Naples Federico II:

OC12- "Sustainable Extraction and Functional Assessment of Pomegranate (Punica granatum L.) Polyphenols: A Green Approach for Gut Health and Disease Prevention"

17:10 | 17:20

Maria Vittoria Morone _ University of Campania Luigi Vanvitelli:

OC13- "Investigation of Hippophae rhamnoides Extract on Intestinal Function Regulation: A Sustainable Approach to Digestive Health"

17:20 | 17:30

Lorenza Francesca De Lellis _ University of Naples Federico II:

OC14- "Evaluation of a Polyphenol- and Micronutrient-Rich Supplement for Managing Prolonged Fatigue: A Sustainable Approach to Well-being"

17:30 | 17:40

Luigi Capasso _ University of Bari Aldo Moro:

OC15- "Essential oil (EO)-based formulations active against oral cavity pathogens"

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Monday, May 5th

program 17:40 - 20:00

17:40 | 17:50

Eleonora Vardaro _ University of Naples Federico II:

OC16- "Unleashing the potential of plant cell culture extracts for sustainable cosmetic bioactives"

17:50 | 18:00

Mariavittoria Verrillo _ University of Naples Federico II:

OC17- "Upcycling Fennel Residues: Humic Substances as Innovative Bioactive Agents for Sustainable Cosmetics"

18:00 | 18:05

Francesca Morra _ Arterra Bioscience S.P.A.:

OC18- "Plantago lanceolata-derived exosomes: a natural and sustainable source of skin wellness"

18:05 | 18:40

Session 3: Presentation of Green Chemistry - Chimica Sostenibile Interdivisional Group of Società Chimica Italiana (Coordinator: Prof. Antonella Salvini) and Round table with Industries affiliated with Unione Industriali Napoli (Session in Italian)

20:00 | ~

Social activity

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Tuesday, May 6th

program 9:00 – 10:10

09:00 | 09:25

Plenary lecture: Dr. Mariantonia Logozzi

Chief Technology Officer EXOLAB Italia – Researcher at Istituto Superiore di Sanità – Department of Oncology and Molecular Medicine (Rome, Italy):

PL02- “The new deal of plant derived extracellular vesicles in nutraceuticals and cosmetics”

09:30 | 10:45

Session 4: Innovative Green Nanotechnologies for Drug Delivery and Biomedical Applications

Chairs: Ivana D'Angelo and Thomas Lee Moore

09:30 | 09:40

Cristina Parisi _ University of Catania:

OC19- “Supramolecular Red-Light-Photosensitized Nitric Oxide Release Within Biocompatible Nanocarriers”

09:40 | 09:50

Virgilio Piccolo _ University of Naples Federico II:

OC20- “Nanoparticles based on inulin and polyesters for the delivery of siRNA and Docetaxel to solid tumors”

09:50 | 10:00

Vincenzo Patamia _ University of Catania:

OC21- “Haloysite-BioBased Nanocomposites: A Green Solution for Antibacterial, Anticorrosion, and CO₂ Conversion Applications”

10:00 | 10:10

Simone Misto _ University of Naples Federico II:

OC22- “Automation for scaling nanoparticle production and characterization”

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Tuesday, May 6th

program 10:10 – 11:45

10:10 | 10:20

Pasquale Russomanno _ University of Florence:

OC23- "NMR Spectroscopy for Structural Insights into RBC-Encapsulated Enzymes: A Sustainable Strategy for Drug Delivery in Green Chemistry"

10:20 | 10:30

Elisabetta Rosa _ University of Naples Federico II:

OC24- "Peptide-based soft materials to access higher contrast efficiency for safer Fe(III)-complexes in MRI scans"

10:30 | 10:40

Francesca Laneri _ University of Catania:

OC25- "Electronic interaction-enhanced NO photorelease and photothermal conversion in Green-Synthesized N-doped carbon dot nanoconjugates"

10:40 | 10:45

Roberto Santoliquido _ Alfatest:

OC26- "Seeing More by Combining Views: A Broader Look at Nanoparticles"

10:45 | 11:45

Coffee break &

Poster Session

(P01-P11) →

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Poster session

10:45 – 11:45

P01

Emanuele Rossitto _ University of Bari Aldo Moro:

"The Co-crystal Platform: a modular approach to mechanochemical co-crystallization"

P02

Claudia Colla _ Sapienza, University of Rome:

"Ferroptosis Induction by a New Pyrrole Derivative as potential anticancer agents"

P03

Demetra Zambardino _ University of Siena:

"A pH-responsive crosslinker platform for Antibody-drug conjugate targeting delivery"

P04

Andrea Gotti _ University of Milan:

"Synthetic Progress Toward cladosporols A and B"

P05

Leonardo Lucchesi _ University of Siena:

"Firsts steps towards a safer and greener synthesis of MF63"

P06

Alessia Alberico _ University of Naples Federico II:

"Covalent reversible peptidomimetic Inhibitors of SARS-CoV-2 Mpro: A Fast-Track Approach Using Multicomponent Reactions"

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Poster session

10:45 – 11:45

P07

Aziza Caccia _ University of Milan:

"Synthesis and antimicrobial activity of ferulic acid dimers and derivatives"

P08

Davide Drusiani _ University of Siena:

"Development of Bioconjugates for the treatment of anaplastic thyroid carcinoma"

P09

Antonella Vitiello _ University of Naples Federico II:

"Zein/HP- β -CD Nano-in-Micro-Particles as a Novel Platform to Enhance Cannabidiol Oral Delivery"

P10

Alessandra Spirito _ University of Naples Federico II:

"Development of a Stable Nanoemulsion for Buccal Delivery of Cannabis Extracts: Improving Bioavailability and Patient Compliance"

P11

Adua Marzocchi _ University of Naples Federico II:

"Radish microgreens as a sustainable source of bioactive compounds with nutraceutical potential"

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Tuesday, May 6th

program 11:45 – 12:35

11:45 | 12:55

Session 5: Sustainable Bio-Based Materials for Healthcare and Industrial Application

Chairs: Ivana D'Angelo and Thomas Lee Moore

11:45 | 11:55

Diego Romano Prinelli _ University of Camerino:

OC27- "Legumes-based surfactants: a sustainable approach for pharmaceutical, cosmetic, and food industries"

11:55 | 12:05

Antonella Vitiello _ University of Naples Federico II:

OC28- "From Biowaste to Innovation: Designing Composite Lignin-Zein Nanoparticles from Artichoke Byproducts"

12:05 | 12:15

Niloufar Keivani _ University of Naples Federico II:

OC29- "Tailoring the Properties of Biodegradable Films: A Study of Chitosan, PVA, and Fish Gelatin Blends"

12:15 | 12:25

Mariasofia Perucchini _ University of Pavia:

OC30- "Kefiran-Containing Electrospun Nanofibers as Alternative Filters for Surgical Face-Masks"

12:25 | 12:35

Sarmad Ahmad Qamar _ University of Campania
Luigi Vanvitelli:

OC31- "Biobased hydrophobic films based on cocoa shell cellulose and with natural waxes for sustainable packaging"

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Tuesday, May 6th

program 12:35 – 14:20

12:35 | 12:45

Irene Segato _ University of Pavia:

OC32- "Design and characterization of cyclodextrin-porous matrices for effective antimicrobial delivery"

12:45 | 12:55

Federico Barrino _ University of Palermo:

OC33- "Materials containing plant drugs obtained by the Sol-Gel method for biomedical use"

13:00 | 14:00

Lunch

14:00 | 15:30

Session 6: Sustainable Functional Foods and Phytochemicals for Human Health

Chairs: Severina Pacifico and Gian Carlo Tenore

14:00 | 14:10

Hamid Mushtaq _ University of Campania Luigi Vanvitelli:

OC34- "Green valorization of olive pruning / defoliation residues for innovative food ingredients: GOING – Green Olive Pruning"

14:10 | 14:20

Donatella Ambroselli _ Sapienza, University of Rome:

OC35- "Characterization of the Chemical Profile of Kissabel Red Flesh Apples Stored in Biodegradable Packaging by Applying NMR: Impacts on Quality and Shelf-Life"

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Tuesday, May 6th

program 12:35 – 14:20

14:20 | 14:30

Carmen Diglio _ University of Campania Luigi Vanvitelli:

OC36- "From Waste to Value: Recovery of Bioactive Compounds and Cellulose from Tomato By-Products for Functional"

12:45 | 12:55

Valeria Vergine _ Sapienza, University of Rome:

13:00 | 14:00

OC37- "Exploring the Metabolomic Profile Along the Riccio Tomato Supply Chain: In-Depth Chemical Characterization and Assessment of Biological Activity for Food Safety"

14:00 | 15:30

Lara Comune _ University of Campania Luigi Vanvitelli:

14:00 | 14:10

OC38- "Exploring Cucumis prophetarum as a Natural Insulin Sensitizer: A Promising Ally Against Type 2 Diabetes"

Shaymaa Abdulrazzaq _ University of Camerino:

14:10 | 14:20

OC39- "Valorization of Olive Oil By-Products: A Comprehensive Study of Phenolic Profiles, Antioxidant Activity, and Prebiotic Characteristic"

Lucia Muzzi _ University of Campania Luigi Vanvitelli:

OC40- "Grape Pomace Bioactives in Gummy Jellies: A Sustainable Path to Wellness"

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Tuesday, May 6th

program 15:10 – 16:00

15:10 | 15:20

Angelica Spano _ University of Bari Aldo Moro:

OC41- "Exploring antioxidant activity and polyphenolic profile of Fagopyrum esculentum seeds"

15:20 | 15:30

Gabriella Garizzi _ University of Campania Luigi Vanvitelli:

OC42- "Green Extraction Strategies for the Sustainable Valorisation of Tomato By-Products"

15:30 | 16:00

Coffee break

16:00 | ~

Awards & Closing Ceremony

The congress has now come to a close, and we extend our deepest gratitude to all participants, speakers, and organizers. Thank you for being part of this event. Wishing you all safe travels, and may your research continue to advance the field of sustainability.