

7-9 February
2024

CINMPIS Days

Consorzio Interuniversitario Nazionale
“Metodologie e Processi Innovativi di Sintesi” (CINMPIS)

BARI
(Italy)

Wednesday 7 February

13:00-14:30 REGISTRATION

14:30-15:00 Opening Ceremony

(Prof. Vito Capriati, Gianluca Maria Farinola,
Saverio Florio)

Section 1: Chair Bartolo Gabriele

15:00-15:45 PL1 Claudio Pettinari

MOF(s): Materials of Future?

15:45-16:15 IL1 Davide Ravelli

Hydrogen Atom Transfer in Synthesis: The
Multifaceted Applications of Decatungstate
Photocatalysis

16:15-16:30 OC1 Luana Bagnoli

Development of Organoselenium-Based
Strategies for Functionalization of Azoles
and Their Biological Evaluation

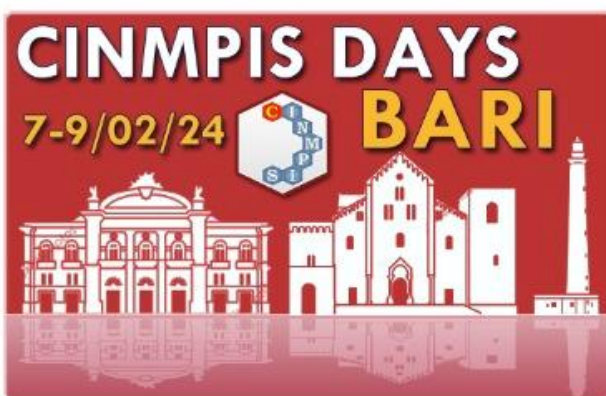
16:30-16:45 OC2 Giulio Bertuzzi

New Perspectives on the Chemistry of
Tropone: An Electrochemical
Breakthrough

16:45-17:15 Coffe Break



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FIRST®



Section 2: Chair Antonio Rescifina

17:15-17:45 IL2 Leonardo Degennaro

Development of Sustainable Synthetic
Tactics to Incorporate C1-Fluorinated
Synthons in Organic Compounds

17:45-18:00 OC3 Ottavia Bettucci

Tailored Metal Porphyrin-Based
Electrocatalysts for Artificial Nitrogen
Fixation to Ammonia

18:00-18:05 FP1 Hawraz Ibrahim M. Amin

Arylazo Sulfones as Photoactive Substrates
in Visible-Light Driven Forging of Ar-C and
Ar-D Bonds

18:05-18:10 FP2 Michael Andresini

Fast One-Pot Synthesis of Aza-S(VI)
Fluorides from Sulfinyl Amines

18:10-18:15 FP3 Sourav Behera

Ruthenium-Catalyzed Mechanochemical N-
Alkylation of Amines Using Alcohols at
Room Temperature

18:15-18:20 FP4 Marilena Caporale

Stereoselective Synthesis of the Precursors
of Natural Herbicide Ascaulitoxin

Section 3: Chair Alessandra Tolomelli

18:20-18:50 IL3 Lucia Veltri

Recent Advances in PdI₂-Catalyzed
Oxidative Aminocarbonylation of
Acetylenic Substrates

18:50-19:05 OC4 Claudia Riccardi

Bioconjugation with Lipophilic
Appendages: Improving Cytotoxicity and
Cell Uptake of Ru(III) Complexes

19:05-19:10 FP5 Maria Edith Casacchia

New Polymeric Disulfonimides for
Heterogeneous Mukaiyama-Aldol Reaction

19:10-19:15 FP6 Veronica Ceccucci

Spectroscopic and Biophysical Techniques
to Study Reactivity Between
Organoselenium Compounds and Thiols

19:15-19:20 FP7 Simone Di Remigio

β -Alkylation of Enals Exploiting EDA
Complexes

19:20-19:25 FP8 Pierantonio Galgano

Biomimetic Syntheses of
Dihydrobenzofurans by N-
Iodosuccinimide

19:25-19:30 FP9 Arianna Sinibaldi

Introduction of Asymmetric Elements in
Phthalidic Compounds via Phase Transfer
Catalysis



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Presentation Type

Plenary Lecture (40 min + 5)

Invited Lecture (27 min + 3)

Oral Communication (12 min + 3)

Flash Presentation (5 min)

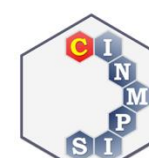
Conference Venue

Sala “A. Leogrande” Centro

Polifunzionale Studenti

Piazza Cesare Battisti

70121 Bari, Italy



UNIVERSITÀ
DEGLI STUDI DI BARI
ALDO MORO
DIPARTIMENTO DI CHIMICA

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Thursday 8 February

Section 4: Chair Francesco Peri

8:45-09:15 **IL4** Serena Gabrielli

Importance and Impact of Organic Synthesis for Functional Polymer Development

9:15-9:45 **IL5** Giuseppe Floresta

Hydroxypyranones and Hydroxypyridinones: From Imaging/Biological Uses to Catalysis Applications

9:45-10:15 **IL6** Roberto Paolesse

Porphyrinoids: From the Bench to Some Applications

10:15-10:30 **OC5** Alessandra Operamolla

Nanocellulose and Polydopamine Covalent Biohybrids for Water Filtration

10:30-10:45 **OC6** Vincenzo Patamia

Synthesis of an Alginic/Kojic Acid Biomaterial with Multiple Applications

10:45-11:00 **OC7** Francesco De Riccardis

From Malleable to Conformationally Rigid Cyclic Peptoids: A Quest for Chemical Properties

11:00-11:30 **Coffe Break**

Section 5: Chair Marino Petrini

11:30-12:00 **IL7** Claudio Santi

Exploring the Synthesis and Reactivity of Zinc Selenolates: Between Green Chemistry and Biological Activity

12:00-12:30 **IL8** Mauro Pineschi

Academic-Industrial Collaborations: A Case Study of Stereoselective Synthesis of a Chiral Drug

12:30-12:45 **OC8** Emanuele Cocco

Piers-Rubinsztajn Reaction to Unlock an 8-Step Synthesis of 7-Hydroxy Cannabidiol

12:45-12:50 **FP10** Serena Traboni

Solvent-Free Synthesis of Key Structural Motifs in Nature



12:50-12:55 **FP11** Sabrina Giordano

Ultrashort Cationic Peptide Fmoc-FKK as Hydrogel Building Block for Potential Biomedical Applications

12:55-13:00 **FP12** Marco Colella
Straightforward Fluoroalkylation Tactics in Continuous Flow: From Polar to Radical Domain

13:00-14:30 **Lunch Break**

Section 6: Chair Maurizio Benaglia

14:30-15:00 **IL9** Maurizio Taddei

Chemistry of Stimuli-Responsive Molecules for Targeted Drug Delivery

15:00-15:30 **IL10** Giorgio Bencivenni

Organocatalytic Methodologies for the Synthesis of Chiral Compounds Bearing Multiple Stereogenic Elements

15:30-16:00 **IL11** Laura Cipolla

Carbohydrates as Natural Feedstock: From Bioactive Materials to Bio-Based Polymers

16:00-16:15 **OC9** Luciana Cicco

N-Alkylation of Amines, Amides and Sulfonamides with Secondary Alcohols in Iron-Based Deep Eutectic Solvents

16:15-16:20 **FP13** Cecilia Scimmi

Selenium Reagents for the Olive Mill Wastewater Detoxification and Production of Lignin Derived-Biomaterials

16:20-16:25 **FP14** Maria Grazia Nolli

Porous Silicon Nanoparticles for Drug Delivery Applications

16:25-16:30 **FP15** Andrea Paparella

Stereoselective Sustainable Synthesis of α,β -Unsaturated Esters via Horner-Wadsworth-Emmons Reaction in Deep Eutectic Solvents

16:30-17:00 **Coffe Break**

Section 7: Chair Vito Capriati

17:00-17:45 **PL2** Helma Wennemers

Asymmetric Catalysis with Peptides

17:45-18:15 **IL12** Francesca D'Anna

On the Way of Circular Economy...We Met Neoteric Solvents

18:15-18:45 **IL13** Anna Bernardi

Controlling C-Type Lectin Receptors with Selective Glycomimetic Antagonists

18:45-19:00 **OC10** Simone Zurzolo

Industrial and Agricultural Solid Waste for Sustainable Catalytic Processes

19:00-19:15 **OC11** Marta Da Pian

The Elsevier's Chemistry Ecosystem

20:30 **Social Dinner** at the *Circolo Cannottieri Barion 1894*, Molo San Nicola 5, 70121 Bari

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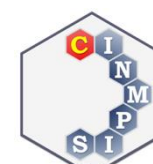
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Friday 9 February

Section 8: Chair Marco Bandini

08:45-09:15 **IL14** Andrea Porcheddu

The Evolution of Mechanochemistry: Bridging Ancient Rites with Cutting-Edge Technologies

09:15-9:45 **IL15** Salvatore Vincenzo Giofrè

Beyond Click-Chemistry: 1,2,3-Triazoles as Powerful Tools in Synthetic Organic Chemistry

9:45-10:00 **OC12** Lucia Chiummiento

From Benzofurans to Dihydrobenzofurans, not a Direct Reduction

10:00-10:15 **OC13** Tommaso Fantoni

Development of Sustainable and Efficient Palladium Cross-Coupling Methodologies via a Novel Reaction Mechanism

10:15-10:30 **OC14** Caterina Campinoti

Novel Chiral Azole-Based Chromophores for Optoelectronic Applications

10:30-10:45 **OC15** Dario Gentili

Organic Synthesis of Climacostol Analogues in the Development of New Potential Chemotherapies

10:45-10:50 **FP16** Davide Moi

An Organocatalytic Approach for the Development of Antiviral Agents

10:50-10:55 **FP17** Philipp Natho

Oxetanes as Nucleophiles for the Synthesis of Pharmaceutically Relevant Key Building Bloks

10:55-11:00 **FP18** Maura Monforte

Synthesis of Bolaamphiphilic Molecules via Sulfenic Acid

11:00-11:30 **Coffe Break**

Section 9: Chair Daniela Montesarchio

11:30-12:00 **IL16** Enrico Marcantonio

New Trends in Organocatalysed and Photochemical Vinylogous Transformations. Access to Novel Bioactive Heterocyclic Chemotypes



12:00-12:30 **IL17** Alfonso Iadonisi

The Iodine/Silane Reagent in Synthetic Glycochemistry: Opportunities and Implications

12:30-12:45 **OC16** Alessio Maria Caramiello

Synthesis of Core-Functionalized Naphthalene Diimides as G-Quadruplexes Ligands

12:45-13:00 **OC17** Maria Chiara Cabua

MAC Methodology for the Stereoselective Synthesis of *Anti* 2-Hydroxy-1,3-Diamine Scaffolds Present in Anti-HIV Agents

13:00-13:15 **OC18** Marco Milone

A Water Soluble Pillar[6]Arene for Drug Delivery

13:15-13:20 **FP19** Mauro Garbini

Exploiting Galvanostatic Electrosynthesis for a new Reductive Cyclodimerization of Chalcones

13:20-13:25 **FP20** Mara Pulpito

Use of Organosodium Reagents for the Synthesis of (*S*)-(4-Chlorophenyl)(phenyl)methanol in Nonconventional Solvents

13:25-13:30 **FP21** Antonio Del Vecchio

Direct and Regioselective Csp²-H Arylation of Imidazo[2,1-b]Thiazole Nucleus

13:30 **Closing Remarks & Greetings**

15:00 **Itinerant Show Conference Through the Old City of Bari**, exploring mysteries, bestiaries and hells, natives of Bari and Venetians, in the footsteps of Dante, Boccaccio, and Pasolini.

The tour is curated by “**I Corsari a Bari Vecchia**” (Trifone Gargano, Dante Scholar, Antonio V. Gelormini, journalist and essayist, and Pasquale Ruggieri, president of slowtravels.it).

Starting time: 15:00 from Teatro Petruzzelli; walking tour duration: 2-2.5 h.



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