



**ATHENS SUMMER SCHOOL ON ORGANIC
SYNTHESIS (ASSOS 2022) AND 2nd INTERNATIONAL
YOUNG INVESTIGATOR SYMPOSIUM ON ORGANIC
SYNTHESIS PROGRAMME**

THURSDAY 7 JULY 2022

11:30-13:30

Registration

Welcome Remarks

13:30-14:00

Welcome Remarks

Session 1

Chair: Christoforos Kokotos, *National and Kapodistrian University of Athens*

14:00-15:00

Andrea Porcheddu, *University of Cagliari*

Mech@nochemistry: The Evolution of an Age-Old Tool for New
Green Frontiers in Organic Chemistry

15:00-16:00

Anastasios Polyzos, *University of Melbourne*

Development of Methods for Efficient Molecular Assembly with Flow
Chemistry

Coffee Break

Session 2

16:30-18:00

Coaching Session: Meeting Trainees with Trainers - Discussions

18:00-19:30

Poster Session - Refreshments and Beverages



FRIDAY 8 JULY 2022

Session 3

Chair: Victoria Magrioti, National and Kapodistrian University of Athens

10:00-11:00	Dzmitry Kananovich, Tallinn University of Technology Green Chemistry Metrics for Sustainability Assessment and Identification of Process Hotspots
11:00-11:20	Christos Stathakis, Aristotle University of Thessaloniki Target Oriented Synthesis as an Opportunity for Discovery
11:20-11:40	Nikolaos Kaplaneris, Georg-August-Universität Göttingen Manganese(I)-Catalyzed C–H Diversification of Peptides
11:40-12:00	Nikolaos Nikitas, National and Kapodistrian University of Athens HFIP-assisted [2+2] Photocycloaddition Reaction of Alkynes with Maleimides Promoted by Thioxanthone
12:00-12:20	Javier Fernandez Reyes, University of Oviedo CO ₂ Sequestration by Mineral Carbonation with Iron Complexation using 2,2'-Bipyridine as Ligand

Coffee Break

Session 4

Chair: Dimitris Georgiadis, National and Kapodistrian University of Athens

14:00-15:00	Ioannis Lykakis, Aristotle University of Thessaloniki Metal Nanoparticles and Metal-based Polymeric Materials as Vehicles for Green Organic Synthetic Methodologies
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15:00-15:20	<p style="text-align: center;">Georgios Toupalas, <i>ETH Zurich</i></p> <p style="text-align: center;">Non-innocent Electrophiles Unlock Exogenous Base-free Coupling Reactions</p>
15:20-15:40	<p style="text-align: center;">Antonis Messinis, <i>Georg-August-Universität Göttingen</i></p> <p style="text-align: center;">Iron-Catalyzed C–H Activation by Weak O-Carbonyl Chelation: Development and Mechanistic Investigation</p>
15:40-16:00	<p style="text-align: center;">Petros L. Gkizis, <i>National and Kapodistrian University of Athens</i></p> <p style="text-align: center;">A Novel, Sustainable and Green Protocol for the Aerobic Photooxidation of Sulfides: Easy Access to APIs</p>
Coffee Break	
<p>Session 5</p> <p>Chair: Alexadros Zografos, <i>Aristotle University of Thessaloniki</i></p>	
16:40-17:00	<p style="text-align: center;">Maria Koyioni, <i>University of Cyprus</i></p> <p style="text-align: center;">Synthesis of 5,5'-Diarylimino Quinoidal 2,2'-Bithiazoles</p>
17:00-17:05	<p style="text-align: center;">Panteleimon Kotidis, <i>National and Kapodistrian University of Athens</i></p> <p style="text-align: center;">Using Mechanochemistry for MOF Synthesis</p>
17:05-17:10	<p style="text-align: center;">Elpida Skolia, <i>National and Kapodistrian University of Athens</i></p> <p style="text-align: center;">[2+2] Cycloadditions of Alkenes with Maleimides Promoted by Visible Light and Thioxanthone</p>
17:10-17:15	<p style="text-align: center;">Nikolaos Skoulikas, <i>National and Kapodistrian University of Athens</i></p> <p style="text-align: center;">The Phospha-Mannich Stereoselective Reaction for the Synthesis of Phosphinic Dipeptides</p>
17:15-17:20	<p style="text-align: center;">Anna-Dimitra Gerogiannopoulou, <i>National and Kapodistrian University of Athens</i></p> <p style="text-align: center;">Conversion of Carboxylic Acids to Alcohols by the Reduction of their Acyl Fluorides</p>
17:25-17:30	<p style="text-align: center;">Nikoleta Spiliopoulou, <i>National and Kapodistrian University of Athens</i></p> <p style="text-align: center;">Photoacids: A Novel Catalytic Approach in the Service of Organic</p>

	Chemistry
17:30-17:35	Filippos Foteinakis , <i>National and Kapodistrian University of Athens</i> Design and Synthesis of Long Chain α -Fluoro β -Lactones as Potential Antimycobacterial Agents
17:35-17:40	Eirini Galathri , <i>National and Kapodistrian University of Athens</i> Photoorganocatalytic Hydroacylation of Dialkyl Maleates utilizing Naphthaloylidenebenzimidazole (NBI) as the Catalyst
17:40-17:45	Naya Stini , <i>National and Kapodistrian University of Athens</i> Cyrene: A Bio-based Solvent for the Mizoroki-Heck Reaction



SATURDAY 9 JULY 2022

Session 6

Chair: Anastasia Detsi, *National Technical University of Athens*

10:00-11:00	Gerasimos Rassias , <i>University of Patras</i> Challenges in the Scale up and Industrial Organic Synthesis in Drug Development
11:00-11:20	Maria-Anna Karadendrou , <i>National Technical University of Athens</i> L-Proline based NADES and Ultrasound Irradiation: A Novel Blend of Green Techniques for the Synthesis of Aurones via Knoevenagel Condensation
11:20-11:40	Vasiliki Mavrikaki , <i>National and Kapodistrian University of Athens</i> Development of Bioactive Compounds against Chronic Inflammatory Diseases
11:40-12:00	Annita Katopodi , <i>National Technical University of Athens</i> Screening of Natural Deep Eutectic Solvents as Media for the Suzuki-Miyaura Coupling for the Synthesis of 3,6-Diaryl-coumarin Analogues

Coffee Break

Session 7

Chair: George Kokotos, *National and Kapodistrian University of Athens*

13:00-13:20	<p>Maria Theodoropoulou, <i>National and Kapodistrian University of Athens</i></p> <p>2-Oxoamide GK241: A Dual Inhibitor of Secreted Phospholipase A₂ (GIIA sPLA₂) and SARS-CoV-2 Main Protease (Mpro)</p>
13:20-13:40	<p>Anargyros Drolapas, <i>National Technical University of Athens</i></p> <p>Preparation and Characterization of Supramolecular Inclusion Complexes of a Near-infrared Fluorescent Cyanine-type Photosensitizer with β-Cyclodextrin for Theranostic Cancer Applications</p>
13:40-14:00	<p>Charikleia Batsika, <i>National and Kapodistrian University of Athens</i></p> <p>Aerobic and Photocatalyst-free Oxidation of Aldehydes to Carboxylic Acids Promoted by Light</p>
14:00	Closing Remarks