

ASSOS 2022

ATHENS SUMMER SCHOOL ON ORGANIC SYNTHESIS 2022

and International Young Investigator Symposium
on Organic Synthesis

FACE-TO-FACE EVENT

July 7 – 9, 2022

**NATIONAL AND KAPODISTRIAN
UNIVERSITY OF ATHENS**

Invited speakers

- Prof. Andrea Porcheddu (University of Cagliari, Italy)
Prof. Dzmitry Kananovich (Tallinn University of
Technology, Chair of Green Chemistry, Estonia)
Prof. Anastasios Polyzos (University of Melbourne, ARC
Training Center for the Chemical Industries, Australia)
Prof. Ioannis Lykakis (Aristotle University of
Thessaloniki, Greece)
Prof. Gerasimos Rassias (University of Patras, Greece)

**Available 10 trainees'
fellowships via COST
Action 18112 MechSusInd**

Organizing Committee

- Prof. Christoforos Kokotos (University of Athens)
Prof. Victoria Magrioti (University of Athens)
Prof. Dimitris Georgiadis (University of Athens)
Prof. Alexadros Zografos (Aristotle University of Thessaloniki)
Prof. Constantinos Athanassopoulos (University of Patras)
Prof. Anastasia Detsi (National Technical University of Athens)
Prof. George Kokotos (University of Athens)
Dr. Ierasia Triandafilidi (University of Athens)

<https://conferences.uoa.gr/e/assos2022>



Athens Summer School on Organic Synthesis 2022
(ASSOS2022)
and
2nd International Young Investigator Symposium on
Organic Synthesis

Local Host

**Prof. Christoforos Kokotos (National and Kapodistrian University of Athens,
Greece)**

Organizing Committee

Prof. George Kokotos (National and Kapodistrian University of Athens, Greece)

Prof. Victoria Magrioti (National and Kapodistrian University of Athens, Greece)

Prof. Dimitris Georgiadis (National and Kapodistrian University of Athens, Greece)

Prof. Constantinos Athanassopoulos (University of Patras, Greece)

Prof. Anastasia Detsi (National Technical University of Athens, Greece)

Prof. Alexadros Zografos (Aristotle University of Thessaloniki, Greece)

Dr. Ierasia Triandafillidi (National and Kapodistrian University of Athens, Greece)

CA18112 Mechanochemistry for Sustainable Industry

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

THURSDAY 7 JULY 2022

11:30-13:15	Registration
13:15-13:45	Welcome Refreshments
Welcome Remarks	
13:45-14:00	Welcome Remarks
Session 1	
Chair: Christoforos Kokotos, <i>National and Kapodistrian University of Athens</i>	
14:00-15:00	Andrea Porcheddu, <i>University of Cagliari</i> Mech@nochemistry: The Evolution of an Age-Old Tool for New Green Frontiers in Organic Chemistry
15:00-16:00	Anastasios Polyzos, <i>University of Melbourne</i> Development of Methods for Efficient Molecular Assembly with Flow Chemistry

Coffee Break	
Session 2	
16:30-16:50	<p>Christoforos Kokotos, <i>National and Kapodistrian University of Athens</i></p> <p>Sunlight-driven Photoorganocatalysis: Novel and Green Organic Transformations and Synthesis of Compounds for the Chemical Industry, <i>Research Programme funded by HFRI</i></p>
16:50-18:00	Coaching Session: Meeting Trainees with Trainers - Discussions
18:00-19:30	Poster Session - Refreshments and Beverages

FRIDAY 8 JULY 2022	
Session 3	
<p>Chair: Victoria Magrioti, <i>National and Kapodistrian University of Athens</i></p>	
10:00-11:00	<p>Dzmitry Kananovich, <i>Tallinn University of Technology</i></p> <p>Green Chemistry Metrics for Sustainability Assessment and Identification of Process Hotspots</p>
11:00-11:20	<p>Christos Stathakis, <i>Aristotle University of Thessaloniki</i></p> <p>Target Oriented Synthesis as an Opportunity for Discovery</p>

11:20-11:40	Nikolaos Kaplaneris , <i>Georg-August-Universität Göttingen</i> Manganese(I)-Catalyzed C–H Diversification of Peptides
11:40-12:00	Nikolaos Nikitas , <i>National and Kapodistrian University of Athens</i> HFIP-assisted [2+2] Photocycloaddition Reaction of Alkynes with Maleimides Promoted by Thioxanthone
12:00-12:20	Javier Fernandez Reynes , <i>University of Oviedo</i> CO ₂ Sequestration by Mineral Carbonation with Iron Complexation using 2,2'-Bipyridine as Ligand
Coffee Break	
Session 4	
Chair: Dimitris Georgiadis , <i>National and Kapodistrian University of Athens</i>	
14:00-15:00	Ioannis Lykakis , <i>Aristotle University of Thessaloniki</i> Metal Nanoparticles and Metal-based Polymeric Materials as Vehicles for Green Organic Synthetic Methodologies
15:00-15:20	Georgios Toupalas , <i>ETH Zurich</i> Non-innocent Electrophiles Unlock Exogenous Base-free Coupling Reactions
15:20-15:40	Antonis Messinis , <i>Georg-August-Universität Göttingen</i> Iron-Catalyzed C–H Activation by Weak O-Carbonyl Chelation: Development and Mechanistic Investigation

15:40-16:00	<p>Petros L. Gkizis, <i>National and Kapodistrian University of Athens</i></p> <p>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>Maria Koyioni, <i>University of Cyprus</i></p> <p>Synthesis of 5,5'-Diarylimino Quinoidal 2,2'-Bithiazoles</p>
17:00-17:05	<p>Panteleimon Kotidis, <i>National and Kapodistrian University of Athens</i></p> <p>Using Mechanochemistry for MOF Synthesis</p>
17:05-17:10	<p>Elpida Skolia, <i>National and Kapodistrian University of Athens</i></p> <p>[2+2] Cycloadditions of Alkenes with Maleimides Promoted by Visible Light and Thioxanthone</p>
17:10-17:15	<p>Nikolaos Skoulikas, <i>National and Kapodistrian University of Athens</i></p> <p>The Phospha-Mannich Stereoselective Reaction for the Synthesis of Phosphinic Dipeptides</p>
17:15-17:20	<p>Anna-Dimitra Gerogiannopoulou, <i>National and Kapodistrian University of Athens</i></p> <p>Conversion of Carboxylic Acids to Alcohols by the Reduction of their Acyl Fluorides</p>

17:25-17:30	Nikoleta Spiliopoulou , <i>National and Kapodistrian University of Athens</i> Photoacids: A Novel Catalytic Approach in the Service of Organic 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
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11:00-11:20	George Kokotos , <i>National and Kapodistrian University of Athens</i> Synthesis of Bioactive Compounds and Study of Bioactive Compounds by High Resolution Mass Spectrometry, <i>Research Programme funded by Stavros Niarchos Foundation</i>
11:20-11:40	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
11:40-12:00	Vasiliki Mavrikaki , <i>National and Kapodistrian University of Athens</i> Development of Bioactive Compounds against Chronic Inflammatory Diseases
12:00-12:20	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 , <i>National and Kapodistrian University of Athens</i>	
13:00-13:20	Maria Theodoropoulou , <i>National and Kapodistrian University of Athens</i> 2-Oxoamide GK241: A Dual Inhibitor of Secreted Phospholipase A ₂ (GIIA sPLA ₂) and SARS-CoV-2 Main Protease (Mpro)
13:20-13:40	Anargyros Drolapas , <i>National Technical University of Athens</i>

	<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> Aerobic and Photocatalyst-free Oxidation of Aldehydes to Carboxylic Acids Promoted by Light</p>
14:00	<p>Closing Remarks</p>



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