

23rd

Panhellenic Chemistry Conference

with International Participation

25-28 September 2024

ATHENS

National and Kapodistrian
University of Athens
Central Building

100



YEARS
Association of
Greek Chemists

*"Chemistry for a Better
World"*

Co-Organization



**Association of
Greek Chemists**



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23rd

Panhellenic Chemistry Conference

with International Participation

Welcome!

100 YEARS
Association of
Greek Chemists
"Chemistry for a Better World"

Dear colleagues & friends,

With great pleasure, we welcome you to the **23rd Panhellenic Chemistry Conference with International Participation**, that takes place in **Athens**, on **25-28 September 2024**, at the **Central Building of the National and Kapodistrian University of Athens**.

This year our conference has an anniversary character, since the **Association of Greek Chemists is celebrating 100 years of life and activity**. A multifaceted activity in all fields with the ultimate goal of always promoting the science of chemistry in industry, technology, education and research, as well as its utilization for the independent economic, social and cultural development of the country. We are transforming the conference, opening it to international participation to bring together researchers from all over the world. We could therefore not have chosen a better title for our conference than **"Chemistry for a Better World"**.

At a time when humanity is already facing the harsh face of challenges due to overpopulation, climate change, epidemics, resource depletion and so many others, chemistry as a central science of life and nature is called upon to play a central, timely and urgent role in addressing these challenges. At the same time, scientists are called upon to put the brakes on the indiscriminate use of chemistry, which often leads to undesirable results, and to focus on 'Green Chemistry' and

its contribution to the sustainable development of humanity. The topics of the conference will include Analytical Chemistry - Quality Control, Inorganic and Bioinorganic Chemistry, Biochemistry - Biotechnology - Clinical Chemistry, Organic Chemistry, Green Chemistry - Chemical Technology - Chemical Engineering, Food and Nutrition, Pharmaceutical Chemistry, Physical and Theoretical Chemistry, Chemistry and Education, Chemistry and Environmental Technology, Chemistry and Polymer Technology, Materials Chemistry and Nanotechnology. The conference provides an excellent opportunity for younger scientists to get acquainted with future trends and perspectives of Chemistry in a multidisciplinary environment.

It is certain that, as in the past, this Conference will also result in the dissemination of new knowledge, exchange of views, concerns and experiences, research pioneering and achievements, fruitful & constructive dialogue, as all speakers and participants will contribute to achieve the above.

The guarantees for the success of the Conference are ensured by the participation of all of us and the hundred-year course of the Association of Greek Chemists. All those who are involved in the multi-disciplinary field of Chemistry are invited to give their presence and put their stones so that our science, which supports life and nature, becomes a valuable tool for improving the quality of life, but also for the care of the planet that hosts us.

We welcome you all at our anniversary conference!!!!

Chairs of the 23rd Panhellenic Chemistry Conference

Christoforos Kokotos
(National and Kapodistrian
University of Athens)

Ioannis Katsoyiannis
(President
AGC)



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Ioannis Katsoyiannis (President AGC)

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Demetrios Anglos, Chair Department of Chemistry, UoC

Theodoros Karapantsios, Chair Department of Chemistry, AUTH

George Kyzas, Chair Department of Chemistry, DUTH

Evi Lianidou, Chair Department of Chemistry, NKUA

John Plakatouras, Chair Department of Chemistry, UoI

Achilleas Theocharis, Chair Department of Chemistry, UPatras

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Marilena Dasenaki (NKUA)

Eleni Deligianni (Chair SXBE)

Eleni Efthimiadou (NKUA)

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Vasileios Koulos (AGC)

Victoria Magrioti (NKUA)

Athina Markou (NKUA)

Olga Mountanea (NKUA)

Anthoula Papageorgiou (NKUA)

Georgios Sakellariou (NKUA)

Panagiota Stini (NKUA)

Scientific Committees

Analytical Chemistry – Quality Control

T. Christopoulos, UPatras
A. Economou, NKUA
C. Kokkinos, NKUA
M. G. Kokotou, AUA
S. Pergantis, UoC
V. Samanidou, AUTH
C. Stalikas, UoI
N. Thomaidis, NKUA

Biochemistry – Biotechnology – Clinical Chemistry

A. Chroni, NCRS Demokritos
N. Eleftheriadis, UoC
M. Lekka, UoI
E. Lianidou, NKUA
I. Pavlidis, UoC
E. Stratikos, NKUA
A. Theocharis, UPatras

Chemistry and Education

K. Methenitis, NKUA
K. Salta, NKUA

Environmental Chemistry and Technology

T. Albanis, UoI
E. Bakeas, NKUA
I. Katsoyiannis, AUTH
H. Karapanagioti, UPatras
I. Konstantinou, UoI
D. Lambropoulou, AUTH

Food Science and Human Nutrition

A. Bekatorou, UPatras
A. Chiou, HUA
N. Nenadis, AUTH
A. Papadopoulos, IHU
A. Paraskevopoulou, AUTH
C. Proestos, NKUA
I. Roussis, UoI
V. Sinanoglou, UNIWA
P. Tarantilis, AUA
M. Terzidis, IHU

Green Chemistry – Chemical Technology – Chemical Engineering

A. Detsi, NTUA
K. Fylaktakidou, AUTH
T. Karapantsios, AUTH
I. Kostas, NHRF
M. Louloudi, UoI
G. Papadogianakis, NKUA
K. Triantafyllidis, AUTH

Η Εταιρεία **Novalab** ιδρύθηκε τον Σεπτέμβριο του 2017 και σε μικρό χρονικό διάστημα ανέλαβε την αποκλειστική αντιπροσώπευση για Ελλάδα & Κύπρο κορυφαίων κατασκευαστικών οίκων, όπως η **Novasina Ελβετίας (water activity meters)** και **Rephile Bioscience Inc. (συστήματα παραγωγής υπερκάθαρου ύδατος & αναλώσιμα)**.

Έκτοτε μέσω σταθερών και μακροχρόνιων συνεργασιών με ποιοτικούς και αξιόπιστους κατασκευαστές, επεκτείνει την γκάμα της σε νέα αναλυτικά όργανα με τεχνολογία αιχμής, παρέχοντας παράλληλα πλήρη τεχνική & επιστημονική υποστήριξη.

Σήμερα αποτελεί έναν αξιόπιστο συνεργάτη πολλών εργαστηρίων ιδιωτικού και δημοσίου τομέα με έμφαση στις βιομηχανίες φαρμάκων, τροφίμων καλλυντικών, ιδιωτικά εργαστήρια καθώς και σε ερευνητικά & εκπαιδευτικά ιδρύματα.

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Inorganic and Bioinorganic Chemistry

S. Hadjikakou, Uol
C. Mitsopoulou, NKUA
G. Papaefstathiou, NKUA
J. Plakatouras, Uol
G. Psomas, AUTH
T. C. Stamatatos, UPatras
A. Salifoglou, AUTH

Materials Chemistry and Nanotechnology

A. Dendrinou-Samara, AUTH
D. Gournis, TUC
G. Kyzas, DUTH
D. Tasis, Uol
V. Tzitzios, NCRS Demokritos
M. Vamvakaki, UoC

Medicinal Chemistry

T. Calogeropoulou, NHRF
D. Hadjipavlou-Litina, AUTH
M. Koufaki, NHRF
V. Magrioti, NKUA
T. Mavromoustakos, NKUA
C. Neochoritis, UoC
G. Rassias, UPatras
V. Sarli, AUTH
A. Tzakos, Uol
S. Vassiliou, NKUA
G. Zoidis, NKUA

Organic Chemistry

C. Athanassopoulos, UPatras
D. Georgiadis, NKUA
T. Gimisis, NKUA
L. Hadjiarapoglou, Uol
I. Lykakis, AUTH
K. Skobridis, Uol
I. Smonou, UoC
M. Stratakis, UoC
G. Vougioukalakis, NKUA
A. Zografos, AUTH

Polymer Chemistry and Technology

A. Avgeropoulos, Uol
D. Bikiaris, AUTH
H. Iatrou, NKUA
J. Kallitsis, UPatras
M. Pitsikalis, NKUA

Physical and Theoretical Chemistry

D. Anglos, UoC
Z. Cournia, BRFAA
G. Froudakis, UoC
A. Koutselos, NKUA
D. Sazou, AUTH
S. Sotiropoulos, AUTH
D. Tzeli, NKUA

23rd

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with International Participation

Invited Speakers



Panagiotis Arapitsas
University of West Attica, Athens, Greece



Emanuele Ceccon
RESTEK Italia S.r.l., Milan, Italy
Invited Speaker for Satellite Lecture by



Maria Kandyla
National Hellenic Research Foundation, Athens, Greece



Angela Agostiano
Chemistry Department
University of Bari Aldo Moro and CNR Institute for Physical and Chemical Processes Bari, Bari, Italy
President of EuChemS



Apostolos Avgeropoulos
University of Ioannina, Ioannina, Greece



Eleni Christodoulou
DEMO, Athens, Greece
Invited Speaker for Satellite Lecture by



Faye Kosmopoulou
Panhellenic Union of Pharmaceutical Industry, Athens, Greece
Invited Speaker for Satellite Lecture by



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LAB EQUIPMENT

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VALIDATION SERVICES

Το εργαστήριο διακριβώσεων είναι διαπιστευμένο, σύμφωνα με το Διεθνές Πρότυπο ISO/IEC 17025. Αποτελείται από 12 έμπειρους τεχνικούς και καλύπτει όλες τις ανάγκες ενός σύγχρονου εργαστηρίου ποιοτικού ελέγχου και έρευνας. Το εργαστήριο διακριβώσεων παρέχει τις ακόλουθες υπηρεσίες:

- Διακριβώσεις κατά ISO 17025
- Διακριβώσεις Cleanroom & LAF κατά ISO 14644
- Επικυρώσεις πεπιεσμένων αερίων κατά ISO 8573
- Διακριβώσεις μετρητών σωματιδίων σύμφωνα με το ISO 21501-4
- IQ/OQ αναλυτικών οργάνων και μηχανών παραγωγής
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- Θερμική συμπεριφορά υλικών συσκευασίας



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Το εργαστήριο διακριβώσεων διαθέτει ξεχωριστό τμήμα για διακριβώση και έλεγχο καθαρών χώρων κατά ISO 14644 καθώς και μετρητών σωματιδίων κατά ISO 21501-4. Ειδικά για τους μετρητές σωματιδίων έχουμε Calibration Benches και Πιστοποίηση από τον κορυφαίο αμερικάνικο οίκο TSI Inc και καλύπτουμε Ελλάδα, Κύπρο και Ανατολική Μεσόγειο



TECHNICAL DEPARTMENT

Το τεχνικό μας τμήμα αποτελείται από ομάδα 5 έμπειρων τεχνικών, εκπαιδευμένων και πιστοποιημένων από τις κατασκευάστριες εταιρείες του εξωτερικού, οι οποίοι εξασφαλίζουν την σωστή εγκατάσταση και πλήρη τεχνική υποστήριξη του εξοπλισμού σας. Η πολυετής εμπειρία μας στην επισκευή εργαστηριακών οργάνων νέων και παλιών εγγυάται την αποτελεσματική κάλυψη των τεχνικών αναγκών σας. Αναλαμβάνουμε επίσης την επισκευή οργάνων και άλλων κατασκευαστών εάν είναι εφικτό η εύρεση ανταλλακτικών.



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Πιστοποιήσεις

Η εταιρεία μας έχει πιστοποιηθεί σύμφωνα με τα πρότυπα ISO 9001:2015, Υπ. Αποφ. 1348/04 και είναι υπό εξέλιξη για ISO 13485:2016. Διαθέτουμε επίσης Διαπιστευμένο Εργαστήριο Μετρολογίας, με πιστοποιητικό ISO 17025:2005

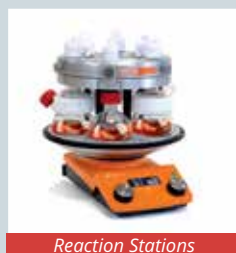
Η εταιρεία **Tech-Line A.E.E.** ιδρύθηκε το 1989 ως μια νέα, δυναμική και ανερχόμενη εταιρεία με σκοπό την εμπορία και διακίνηση χημικών και αναλωσίμων χρωματογραφίας σε εργαστήρια ποιοτικού ελέγχου. Η συνολική της πορεία μέχρι σήμερα με το πλήθος των συνεργασιών της επισφραγίζει τη σταθερά ανοδική πορεία της εταιρείας.



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Συνεργασίες - Αντιπροσωπείες



Ελευθερίας 4, Κηφισιά, Τ.Κ.14564, Αθήνα
Τηλ :210 5281990, www.techlinesa.com
E-mail: contact@techlinesa.com

25-28 September 2024

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Evi Lianidou
National and Kapodistrian University of Athens, Athens, Greece



Max Mayr
cytiva Munich, Germany

Invited Speaker for Satellite Lecture by



Evangelos Miliordos
Auburn University, Auburn, Alabama, USA



Giannis Mpourmpakis
University of Pittsburgh, Pittsburgh, Pennsylvania, USA



Laurent Pascaud
Agilent Technologies Paris, France
Invited Speaker for Satellite Lecture by



Nikos Pinotsis
National and Kapodistrian University of Athens, Athens, Greece



Anastasios Polyzos
University of Melbourne and CSIRO, Melbourne, Australia



Gesa J. Schad
SHIMADZU Excellence in Science
Duisburg, Germany
Invited Speaker for Satellite Lecture by



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Michael Scoullas
National and Kapodistrian
University of Athens,
Athens, Greece



Jianru Stahl-Zeng
AB SCIEX Darmstadt,
Germany
*Invited Speaker for Satellite
Lecture by*

ANTISEL



Nikos Thomaidis
Vice President of
the Administration
Council, National and
Kapodistrian University
of Athens, Athens,
Greece



**Georgios
Vassilikogiannakis**
University of Crete,
Heraklion, Greece



Christina White
University of Illinois,
Urbana, Illinois, USA

Invited Young Speakers



Nikolaos Kaplaneris
Van't Hoff Institute for
Molecular Sciences
(HIMS), University of
Amsterdam, Amsterdam,
The Netherlands



Maria Nerantzaki
Institut de Science
et d'Ingénierie
Supramoléculaires (ISIS),
University of Strasbourg,
Strasbourg, France

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- ☒ ICP OES
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Association of Greek Chemists

The Association of Greek Chemists is a legal entity under public law under the supervision of the Ministry of Industry, Energy and Technology. The headquarters of the Hellenic Chemical Society is located in Athens.

The purpose of the A.G.C. is to promote the science of chemistry in industry, technology, education, research and control, as well as its use for the independent economic, social and cultural development of the country.

The A.G.C. is an adviser to the State and has the following responsibilities:

- To study, on its own initiative or at its own request, independently or in cooperation with other social or scientific bodies, any matter relating to chemistry and its applications and to formulate opinions on legislation relating to these matters.
- Provide all possible assistance for the application of scientific chemistry data to the exploitation of the country's mineral resources.
- To give advice, at the request of the competent departments of the State or other public sector bodies or trade unions, on any matter relating to chemical control, chemical research and technology, chemical education and the organization of the chemical services of the State.
- Contribute to the protection of the health of society, the protection of the natural environment and the provision of healthy and safe working conditions.
- Publish informative and scientific publications and other specialized publications and ensure that the public is informed by means of announcements, publications or any other appropriate means on any matter within its competence, popularizing and helping to broaden understanding of the relevant issues and problems.
- Participate in international chemistry or other related organizations, develop relations with similar organizations in other countries and with other scientific and professional organizations at home and abroad, and organize conferences, exhibitions, and other events to promote its objectives.
- Collect statistical data on matters within its competence, create and enrich chemical libraries, information and documentation centers and ensure the scientific progress, information, training and continuing education of its members and the promotion and protection of their prestige and the promotion of their social role.
- Ensure the protection of the chemical profession and in particular the protection of the professional, economic, social and insurance interests of its members
- To study new forms of professional organization and work of its members and to exercise disciplinary authority over them

The A.G.C. shall seek to:

- the development of scientific as well as professional consciousness among its members,
- the development and promotion of cooperation among its members.

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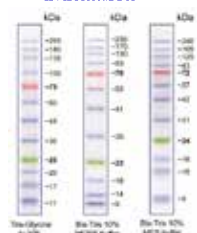


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Conference Venue



HELLENIC REPUBLIC
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University of Athens

History that enlightens Knowledge that evolves...

Great Hall

The Great Hall of the National and Kapodistrian University of Athens, that is the first Greek Institution of Higher Education, is located in the "Main Building" of the University, Propylaea (Panepistimiou St. 30), one of the oldest neo-classical buildings of the city of Athens. The "Main Building" together with the Academy of Athens and the National Library compose the so called "Neo-classical Trilogy". It was built under the supervision of the German engineer Edward Schaubert, following the plan created by the Danish architect Christian Hansen.





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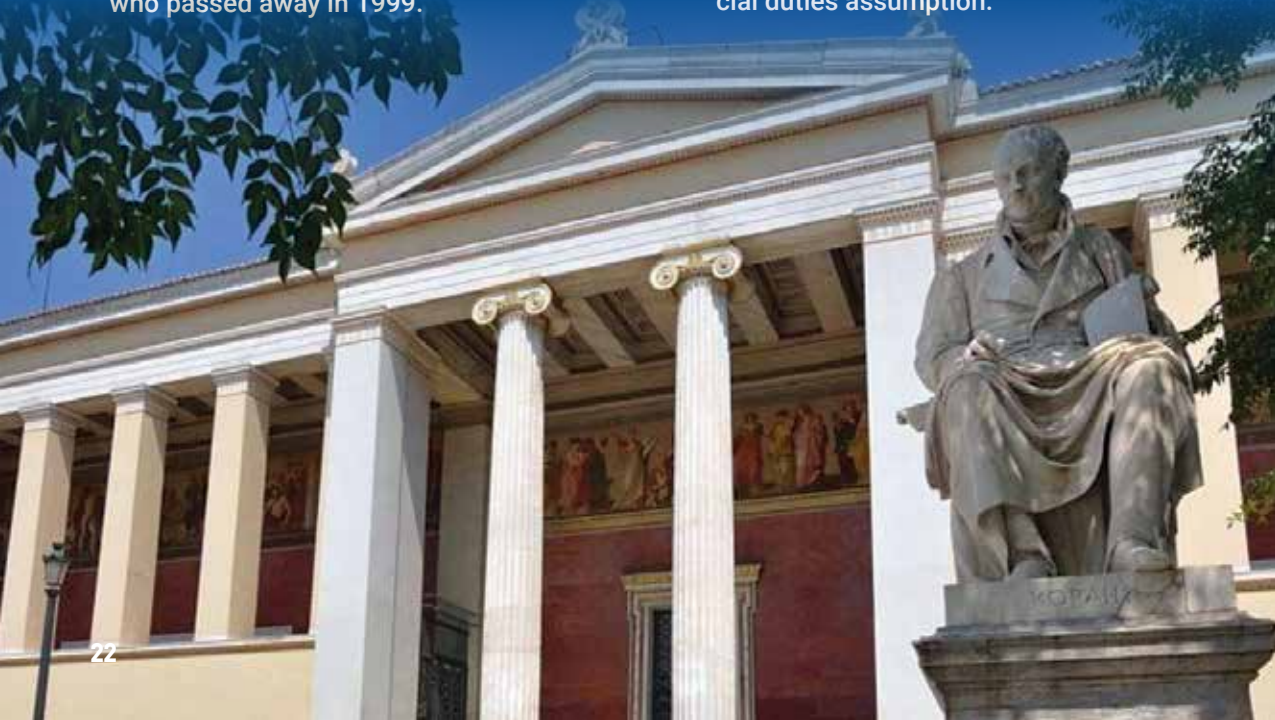
"Ioannis Drakopoulos" Amphitheatre

The "Ioannis Drakopoulos" Amphitheatre, the old "Medicine School Amphitheatre", is located in the Main Building of the National and Kapodistrian University of Athens, Propylaea (Panepistimiou St. 30). Before its renovation, the Amphitheatre was operated as an Auditorium. The Amphitheatre was renamed honoring the memory of Professor of the Faculty of Geology and Geo-environment and acting Vice Rector Ioannis Drakopoulos, who passed away in 1999.



"Alkis Argyriadis" Amphitheatre

The "Alkis Argyriadis" Amphitheatre is located in the Main Building of the National and Kapodistrian University of Athens, Propylaea (Panepistimiou St. 30). The Amphitheatre was named honoring the memory of Law School Professor, Alkis Argyriadis, Vice-Rector of the University (1983 to 1986), who was also elected Rector, but passed away, before his official duties assumption.



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KLEVA Pharmaceuticals Your reliable partner

Our vast experience in Production, Quality Control and Quality Assurance enables us to provide our Customers with high quality products.

Over the years, Kleva has built an exceptionally experienced Tech Transfer Team and a robust transfer process.

Our project teams commit to:

- Implement and industrialize production and quality control
- Comply with GMPs
- Observe the timing for supply, launching and registering
- Align with the budget and identifying sources of costs optimization
- Communicate thoroughly with our customers about the status of the project.



Commercial manufacturing capacity includes production of medicinals, food supplements, medical devices and Health & Beauty products in the following forms:

- **solid dosage forms:** various tablet forms (plain, coated, controlled release), capsules, granules in sachets and jars.
- **semi-solids:** creams, ointments, gels
- **liquids:** oral solutions (syrups, elixirs and suspension in bottles, solution in drops and monodose vials) and liquids for external use
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- **small and large volume parenterals:** injectable vials and ampules (by sterile filtration or by final sterilization)
- **manufacturing line for ophthalmic products**

An independent warehouse of 7.000 m² is used for handling and storing raw materials, packaging materials and finished products.

Our goal is...

to provide added value services that help our Customers remain competitive and profitable.

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Welcome to

Athens

A journey through time

Athens, the historical capital of Europe. Athens is one of the world's oldest cities. It's recorded history spanning around 3.400 years. Today, under the shadow of Parthenon, the contemporary urban scenery of the sprawling city reflects its exciting history, its multi-cultural modern personality as well as the infrastructure and facilities.

The perfect Mediterranean climate with the legendary greek sunlight, the unique combination of glorious history with modern, urban innovation, the coexistence of great culture with astonishing natural beauty, the high standard hotel accommodation,

modern means of transportation such as the cutting edge modern metro, the vibrant rhythm of life, the wide choice of opportunities for shopping, dining and night life and of course the warmth of the Athenians people feature Athens as the ideal all year round city break destination. The city of Parthenon is an open air museum. A large part of the town's historic center has been converted into a 3 km pedestrian zone, one of the largest in Europe. It leads to the major archaeological sites ("archaeological park"), reconstructing – to a large degree – the ancient landscape. Either on foot or by bike, the "Grande Promenade" around Acropolis is an unforgettable journey through history.



Η RIGAS LABS A.E.B.E. ιδρύθηκε το 1989 στην Θεσσαλονίκη με κύρια δραστηριότητά την εμπορία επιστημονικών οργάνων, χημικών ουσιών και αναλωσίμων.

Σήμερα, μετά από 35 και πλέον χρόνια εμπειρίας και αξιοπιστίας, η εμπιστοσύνη των πελατών μας και η συνεργασία με διεθνώς αναγνωρισμένους κατασκευαστές έχουν καθιερώσει την εταιρεία μας από τις κορυφές του κλάδου στην Ελλάδα.

Παρέχουμε ολοκληρωμένες και υπεύθυνες λύσεις επιστημονικού εξοπλισμού προσαρμοσμένες στις δικές σας ανάγκες και παράλληλα υψηλού επιπέδου υπηρεσίες τεχνικής και επιστημονικής υποστήριξης.

Πελάτες μας είναι ιδιωτικά αναλυτικά εργαστήρια, κρατικοί ελεγκτικοί οργανισμοί, πανεπιστημιακά/ερευνητικά ιδρύματα, φαρμακοβιομηχανίες, βιομηχανίες τροφίμων και ποτών, βιομηχανίες μετάλλων, διυλιστήρια πετρελαίου, τσιμεντοβιομηχανίες, νοσοκομεία, κ.α.

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στο Πικέρμι

Νέο εργοστάσιο - 2 μονάδες παραγωγής
για εισπνεόμενα και στερεές μορφές
στην Κερατέα

Πάρκο Βιοϊατρικής Έρευνας &
Καινοτομίας το «Athens LifeTech Park»
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παραγωγής για ογκολογικά φάρμακα
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23rd Panhellenic
Chemistry
Conference
with International Participation

Scientific Program


1st Day Wednesday 25th September 2024

15:00-18:00 Registrations

Great Hall

18:00-18:30 Opening Ceremony – Inaugurations

18:30-20:00	Welcome Lecture: 100 years Association of Greek Chemists (1924,2024) Avraam Mavropoulos , Dr. Educational Sciences
	INVL01 – New Strategies in Catalytic Radical Carbonylation of Organohalides Anastasios Polyzos^{†§} [†] School of Chemistry, The University of Melbourne, Melbourne, Australia [§] CSIRO Manufacturing, Research Way, Clayton, Australia

20:00-21:30 Welcome Reception

2nd Day Thursday 26th September 2024

"Ioannis Drakopoulos" Amphitheatre

Moderators: Evangelia Emmanouilidou (NKUA), Athina Markou (NKUA)

09:00-09:30	INVL02 – The Potential of Comprehensive Liquid Biopsy Analysis for the Management of Cancer Patients Evi S. Lianidou , Laboratory of Analytical Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece
09:30-10:00	INVL03 – Cryo-EM Structure of the Yeast Succinate: Quinone Oxidoreductase Inhibited by the Fungicide Bixafen Nikos Pinotsis^{1,2}, Amandine Marechal² ¹ Laboratory of Biochemistry, Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece ² Institute of Structural and Molecular Biology, University College London, London, United Kingdom

2nd Day Thursday 26th September 2024

"Ioannis Drakopoulos" Amphitheatre

10:00-10:20	OP01 – Distinct Pathogenic Roles of Apolipoprotein E4 in Alzheimer's Disease: Impacts on Amyloid Beta Intraneuronal Accumulation, Tau Phosphorylation and Neuroinflammation Christina Mountaki*, Anastasia-Georgia Dedemadi*, Ioannis Dafnis*, Karita Haapasalo**, Angeliki Chroni* <i>*Institute of Biosciences and Applications, National Center for Scientific Research "Demokritos", Agia Paraskevi, Athens, Greece</i> <i>**Department of Bacteriology and Immunology, Medicum and Human Microbiome Research Program, Faculty of Medicine, University of Helsinki, Helsinki, Finland</i>
10:20-10:40	OP02 – NMR Analysis of Protein "Key Players" in the ADP-Ribosylation Pathway Aikaterini Tsika¹, Nikolaos Fourkiotis¹, Konstantina Kravvariti¹, Christos Sideras¹, Maria Antonopoulou¹, Thanos Papakyriakou², Georgios A. Spyroulias^{1*} ¹ Department of Pharmacy, University of Patras, Patras, Greece ² Institute of Biosciences & Applications, "NCSR" Demokritos, Athens, Greece
10:40-10:50	OP03 – Metabolomics Twenty Years: Principles, Protocols, and Applications Evgenia-Anna Papadopoulou*, Christos N. Kerezoudis*, Sotirios Giannakaris*, Konstantinos A. Aliferis* <i>*Agricultural University of Athens, Laboratory of Pesticide Science, Athens, Greece</i>
10:50-11:00	OP04 – PROteolysis- TARgeting Chimeras, PROTACs, a Promise for "Undruggable" Proteins Alexandra Lampropoulou*, Alexandra Smina*, Christos Siokatas**, Vasiliki Sarli**, Constantin Tamvakopoulos* <i>*Division of Pharmacology-Pharmacotechnology, Center for Clinical, Experimental Surgery and Translational Research, Biomedical Research Foundation of the Academy of Athens, Athens, Greece</i> <i>**School of Chemistry, Faculty of Science, Aristotle University of Thessaloniki, Thessaloniki, Greece</i>

11:00-11:30 Coffee Break

Moderators: Demetrios Chronopoulos (NKUA), Eleni Efthimiadou (NKUA)

11:30-12:00	INVL04 – Exploring Soft Chemistry Routes for Functional Nanostructures: Unlocking Novel Potentials for Energy, Environmental and Biomedical Application Angela Agostiano , Chemistry Department, University of Bari Aldo Moro and CNR Institute for Physical and Chemical Processes Bari, Bari, Italy President of EuChemS
12:00-12:20	SL01 – Beyond All Limits : Achieve Ultimate Sensitivity and Robustness for Pesticides Analysis Using a New Revolutionary Source Laurent Pascaud , Agilent GC & GCMS Product Specialist


2nd Day Thursday 26th September 2024

"Ioannis Drakopoulos" Amphitheatre

12:20-12:40	INVYL01 - Precision Polymer Synthesis and DNA Nanotechnology: A New Land for the Design of High-Performance Hybrid Materials Maria Nerantzaki , <i>Université de Strasbourg, CNRS, ISIS, Strasbourg, France</i>
12:40-13:00	OP05 - Polyurea-Crosslinked Biopolymer Aerogels as a Versatile Platform for the Design and Synthesis of Nanostructured Materials for Environmental and Biomedical Applications Patrina Paraskevopoulou , <i>Inorganic Chemistry Laboratory, Department of Chemistry, National and Kapodistrian University of Athens, Panepistimiopolis Zografou, Athens, Greece</i>

13:00-14:30 Lunch Break

Moderators: Patrina Paraskevopoulou (NKUA), Marinos Pitsikalis (NKUA)

14:30-14:40	Award Ceremony Lifelong Achievements Awards in Materials Chemistry Awardee: Efstratios I. Kamitsos, <i>National Hellenic Research Foundation</i>
14:40-15:10	INVL05 - Is the Electrocatalytic Hydrogen Evolution Reaction on Tungsten Oxides Really a Surface Phenomenon? Giannis Mpourmpakis , <i>Department of Chemical Engineering, University of Pittsburgh, Pittsburgh, Pennsylvania, USA</i>
15:10-15:20	OP06 - Electroactive Naphthalimide and Naphthalenediimide Interlayers for Inverted Perovskite Solar Cells Konstantina-Kalliopi Armadorou* , Ghewa AlSabeH*,** , Murad Najafov** , Felix Thomas Eickemeyer* , Lukas Pfeifer* , Jinhyun Kim* , Wenzhe Niu* , Likai Zheng* , Shaik Mohammed Zakeeruddin* , Jovana V. Milić** , Michael Grätzel* <i>*Laboratory of Photonics and Interfaces, Institute of Chemical Sciences and Engineering, École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland</i> <i>**Smart Energy Materials, Adolphe Merkle Institute, University of Fribourg, Fribourg, Switzerland</i>
15:20-15:30	OP07 - Tungsten Disulfide-Nickel Porphyrin with Photo-Enhanced Electrocatalytic Activity Against Water Oxidation Michail P. Minadakis* , Nikos Tagmatarchis* <i>*Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation, Athens, Greece</i>
15:30-15:40	OP08 - Synthesis of WO₃ NANORODS/MXENE (1D/2D) Schottky Junctions and their Application as Photocatalysts for Water Remediation Christos Lykos* , Ioannis Konstantinou*,** <i>*Department of Chemistry, University of Ioannina, Ioannina, Greece</i> <i>**Institute of Environment and Sustainable Development, University Research and Innovation Center, University of Ioannina, Ioannina, Greece</i>

2nd Day Thursday 26th September 2024

"Ioannis Drakopoulos" Amphitheatre

15:40-15:50	OP09 - Synthesis and Characterization of Chemical Modified MoS₂ Nanosheets with Perylene Derivatives Eleni Nikoli* , Ruben Canton-Vitoria* , Nikos Tagmatarchis* <i>*National Hellenic Research Foundation, Theoretical and Physical Chemistry Institute, Athens, Greece</i>
15:50-16:00	OP10 - Tuning of Activity and Toxicity of Hybrid Nanostructures through Lattice Defects: The Concept of 'Safe by Design' Fotini Fragou* , Yiannis Deligiannakis** , Maria Louloudi* <i>*Laboratory of Biomimetic Catalysis & Hybrid Materials, Department of Chemistry, University of Ioannina, Ioannina, Greece</i> <i>**Laboratory of Physical Chemistry of Materials & Environment, Department of Physics, University of Ioannina, Ioannina, Greece</i>
16:00-16:10	OP11 - A Hamilton-Type Recognition Motif Realized on the Surface of MoS₂ for the Electrochemical Detection of Barbiturates Ioanna K. Sideri* , Alexandra Liapi* , Christina Stangel* , Anastasios Stergiou* , Nikos Tagmatarchis* <i>*National Hellenic Research Foundation, Theoretical and Physical Chemistry Institute, Athens, Greece</i>
16:10-16:20	OP12 - Nanochemistry of Inorganic based Nanostructures for diverse Bio-applications Kleoniki Giannousi* , Catherine Dendrinou-Samara* <i>*Laboratory of Inorganic Chemistry, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece</i>

16:30-17:00 Coffee Break

Moderators: Evangelia Emmanouilidou (NKUA), Maria Nerantzaki (ISIS)

17:00-17:20	SL02 - A short but Comprehensive Presentation of Chromatography Media & Columns for Use in the Research and Development of Biomolecules as well as in Bioprocess Environment, for New and Innovative Pharmaceutical Products, from Cytiva, the Leading Company in this Field Max Mayr , <i>Bioprocess Resin Sales Specialist, Cytiva, Munch, Germany</i>
17:20-17:30	OP13 - Amido and Alkyl Complexes of 3D Metals in Organometallic Synthesis and Catalytic Polymerization Reactions Charalampos Papapanagis* , Irene Ligielli* , Olga Kokkorogianni** , Nikolaos Tsoureas* , Marinos Pitsikalis** , Andreas A. Danopoulos* <i>*Laboratory of Inorganic Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Panepistimiopolis Zografou, Athens, Greece</i> <i>**Laboratory of Industrial Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Panepistimiopolis Zografou, Athens, Greece</i>




2nd Day Thursday 26th September 2024

"Ioannis Drakopoulos" Amphitheatre

17:30-17:40	OP14 - Hybrid Lanthanide-Flavonoid Materials in Diagnostic and Therapeutic Medicine Anastasios Papadopoulos* , Sevasti Matsia*, Antonios Hatzidimitriou**, Athanasios Salifoglou* <i>*Laboratory of Inorganic Chemistry and Advanced Materials, School of Chemical Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece</i> <i>**Laboratory of Inorganic Chemistry, School of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece</i>
17:40-17:50	OP15 - Salicylic Acid Complexes with Alkaline Earths (Ca, Mg, Sr), as Possible Multifunctional Formulation. Michail T. Poravos^a, Christina N. Banti^a, Antonios G. Hatzidimitriou^b, Sotiris K. Hadjikakou^a <i>^aLaboratory of Biological Inorganic Chemistry, Department of Chemistry, University of Ioannina, Ioannina, Greece</i> <i>^bDepartment of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece</i>
17:50-18:00	OP16 - In-Vitro Potency of Vanadium-Peroxido-Betaine Hybrid Materials Against Hepatocellular Carcinoma Models Georgios Lazopoulos*, Sevasti Matsia*, Efrosini Kioseoglou*, Athanasios Salifoglou* <i>*Laboratory of Inorganic Chemistry and Advanced Materials, School of Chemical Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece</i>

18:00-18:27	Flash Posters Presentations
	Biochemistry – Biotechnology – Clinical Chemistry
18:00-18:03	FP01 - Profiling Plasma-Extracellular Vesicle Metabolites and miRNAs: An Unobserved Clue for Predicting Relapse in Patients With Early-Stage NSCLC Eleni Thanou*, Vivi Bafiti**, Sotiris Ouzounis**, Athanasios Kotsakis***, Vasilis Georgoulas****, Evi Lianidou*, Theodora Katsila**, Athina Markou* <i>*Lab of Analytical Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece</i> <i>**Institute of Chemical Biology, National Hellenic Research Foundation, Athens, Greece</i> <i>***Department of Medical Oncology, University General Hospital of Larissa, Thessaly, Greece</i> <i>****First Department of Medical Oncology, Metropolitan General Hospital of Athens, Cholargos, Greece</i>

2nd Day Thursday 26th September 2024

"Ioannis Drakopoulos" Amphitheatre

18:03-18:06	FP02 - Transcriptome Analysis of Nervous Necrosis Virus Disease Resistant and Susceptible European Sea Bass Provides Clues Regarding the Establishment of Virus Carrier State Dimitra K. Toubanaki*, Antonia Efstathiou*, Odysseas-Panagiotis Tzortzatos*, Vasileios Bakopoulos**, Evdokia Karagouni* <i>*Immunology of Infection Group, Department of Microbiology, Hellenic Pasteur Institute, Athens, Greece</i> <i>**Department of Marine Sciences, School of The Environment, University of The Aegean, University Hill, Lesvos, Mytilene, Greece</i>
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	Materials Chemistry and Nanotechnology
18:06-18:09	FP03 - Tuning Zinc Oxide Nanostructures for Agrochemical Applications Catherine Dendrinou-Samara¹, Kleoniki Giannousi¹, Julietta Moustaka¹, Giota Tryfon¹, Stefanos Andreadis², Ilektra Sperdouli², Michael Moustakas³ <i>¹Laboratory of Inorganic Chemistry, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece</i> <i>²Institute of Plant Breeding and Genetic Resources, Hellenic Agricultural Organization «DIMITRA», Themi, Greece</i> <i>³Department of Botany, Aristotle University of Thessaloniki, Thessaloniki, Greece</i>
18:09-18:12	FP04 - Conjugated Microporous Polymers for Efficient Photocatalytic Hydrogen Peroxide Evolution Andreas Katsamitros*, Mohamed Gamal Mohamed**, Nikolaos Karamoschos*, Kuo Shiao-Wei**, Dimitrios Tasis* <i>*Department of Chemistry, University of Ioannina, Ioannina, Greece</i> <i>**Department of Materials and Optoelectronic Science, Center for Functional Polymers and Supramolecular Materials, National Sun Yat-Sen University, Taiwan</i>
18:12-18:15	FP05 - Design, Synthesis and Characterization of Chitosan Nanoparticles Containing Chloroaluminum Phthalocyanine for Photodynamic Therapy Ioannis Alagiannis*, Ioanna Pitterou**, Alexandra Karagianni*, Eleni Alexandratou*, Anastasia Detsi** <i>*Laboratory of Biomedical Optics and Applied Biophysics, School of Electrical and Computer Engineering, National Technical University of Athens, Zografou Campus, Athens, Greece</i> <i>**Laboratory of Organic Chemistry, School of Chemical Engineering, National Technical University of Athens, Zografou Campus, Athens, Greece</i>

2nd DayThursday 26th September 2024

"Ioannis Drakopoulos" Amphitheatre

18:15-18:18	FP06 - Synthesis and Characterization of Electric Double Layer Capacitors (EDLC) Using Different Carbon-Based Nanomaterials Lydia Gialama[*], Dionysis S. Karousos[*], George Theodorakopoulos[*], Fotios K. Katsaros[*], Evangelos P. Favvas[*], Mirtat Bouroushian^{**} [*] Institute of Nanoscience and Nanotechnology, National Center for Scientific Research "Demokritos", Aghia Paraskevi, Athens, Greece ^{**} School of Chemical Engineering, National Technical University of Athens, Athens, Greece
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	Medicinal Chemistry
18:18-18:21	FP07 - Union of Multicomponent Reactions Towards a Manifold of Druglike Heterocycles Maria-Aikaterini Giannakaki[*], Marios Zingiridis[*], Constantinos G. Neochoritis[*] [*] Department of Chemistry, University of Crete, Voutes, Heraklion, Greece
18:21-18:24	FP08 - AI Promoted Virtual Screening and Hit to Lead Optimization Synthetic Studies of Novel Covid-19 S-RBD Domain Inhibitors Theano Fotopoulou^{**}, Ioannis Gkekas[*], Sotirios Katsamakas^{*****}, Stelios Mylonas^{**}, George E. Magoulas^{**}, Alia Cristina Tenchiu^{**}, Marios Dimitriou^{*****}, Apostolos Axenopoulos^{***}, Simona Kostova^{*****}, Erich E. Wanker^{*****}, Theodora Katsila^{**}, Demetris Papahatjis^{**}, Vassilis G. Gorgoulis^{*****}, Maria Koufaki^{**}, Ioannis Karakasiliotis^{*****}, Theodora Calogeropoulou^{**}, Petros Daras^{***}, Spyros Petrakis[*] [*] Institute of Applied Biosciences, Centre for Research and Technology Hellas, Thessaloniki, Greece ^{**} Institute of Chemical Biology, National Hellenic Research Foundation, Athens, Greece ^{***} Information Technologies Institute, Centre for Research and Technology Hellas, Thessaloniki, Greece ^{****} Laboratory of Pharmaceutical Chemistry, School of Pharmacy, Aristotle University of Thessaloniki, Campus, Thessaloniki, Greece ^{*****} Laboratory of Biology, Department of Medicine, Democritus University of Thrace, Alexandroupolis, Greece ^{*****} Max-Delbrueck-Center for Molecular Medicine in the Helmholtz Association, Berlin, Germany ^{*****} Molecular Carcinogenesis Group, Department of Histology and Embryology, Medical School, National and Kapodistrian University of Athens, Athens, Greece
18:24-18:27	FP09 - Synthesis of Hydrazone Heterocyclic Derivatives with Antioxidant Activity as Lipoxygenase Inhibitors Dialekti Chlorou^a, Rafailia Valasiadou^a, Eleni Pontiki^a ^a Department of Pharmaceutical Chemistry, School of Pharmacy, Faculty of Health Sciences, Aristotle University of Thessaloniki, Thessaloniki, Greece

18:30-20:00 Poster Session A

2nd DayThursday 26th September 2024

"Alkis Argyriadis" Amphitheatre

Moderators: Evaggelos Bakeas (NKUA), Sotiris Karavoltsos (NKUA)	
09:00-09:30	INVL06 - Leveraging High Resolution Mass Spectrometric Advances for Comprehensive Environmental Monitoring and Management of Chemicals Nikolaos S. Thomaidis, National and Kapodistrian University of Athens, Athens, Greece
09:30-09:40	Award Ceremony Lifelong Achievements Awards in Environmental Chemistry Awardee: Michael Scoullou, National and Kapodistrian University of Athens
09:30-09:50	OP17 - Environmental Chemistry, a Dynamically Expanding Scientific Discipline Michael Scoullou, National and Kapodistrian University of Athens, Athens, Greece
09:50-10:10	OP18 - Evaluating High Molecular Weight Polyethylenimine-Silica Composites for Effective Chromate and Arsenate Removal from Aqueous Solutions Maria Xanthopoulou, Dimitrios Gkiliopoulos, Konstantinos S. Triantafyllidis, Margaritis Kostoglou, Ioannis A. Katsoyiannis Aristotle University of Thessaloniki, Department of Chemistry, Thessaloniki, Greece
10:10-10:30	OP19 - Study of the Secondary Organic Aerosol in PM_{1.0} and PM_{2.5} Particulate Matter Sevasti-Panagiota Kotsaki[*], Maria Kosmidi[*], Evangelos Bakeas[*] [*] Laboratory of Environmental Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, University Campus, Athens, Greece
10:30-10:40	OP20 - Determination of Microplastics in Municipal Wastewater Treatment Plant Effluents and Sludge Using Micro-Raman Spectroscopy Kleopatra Miserli[*], Ioannis Konstantinou^{*,**} [*] Department of Chemistry, University of Ioannina, Ioannina, Greece ^{**} Institute of Environment and Sustainable Development, University Research and Innovation Center, University of Ioannina, Ioannina, Greece
10:40-10:50	OP21 - Humic Acid Removal from Aqueous Solutions by Using Chitosan/Curcumin/Activated Carbon Derivatives Dimitrios Theologis[*], Athanasia K. Tolkou^{**}, Konstantinos N. Maroulas^{**}, George Z. Kyzas^{**}, Ioannis A. Katsoyiannis[*] [*] Laboratory of Chemical and Environmental Technology, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece ^{**} Hephaestus Laboratory, School of Chemistry, Faculty of Sciences, Democritus University of Thrace, Kavala, Greece


2nd Day Thursday 26th September 2024

"Alkis Argyriadis" Amphitheatre

10:50-11:00	OP22 - Development of a New Unmanned Surface Vehicle (USV) Equipped with a Surface Microlayer (SML) Sampler for Water Quality Studies Nikolaos Katsikatsos* , Aikaterini Sakellari*, Theodora Paramana*, Georgios Katsouras** , Sotirios Karavoltos* <i>*Laboratory of Environmental Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece</i> <i>**Athens Water Supply and Sewerage Company, Athens, Greece</i>
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11:00-11:30 Coffee Break

Moderators: Anastasia Detsi (NTUA) Kalliopi Ladomenou (DUTH)

11:30-11:40	Award Ceremony Lifelong Achievements Awards in Green Chemistry Awardee: Constantinos Poulos , University of Patras
11:40-12:00	OP23 - Dynamic Behavior of Emulsions in Microgravity Conditions On-Board Parabolic Flights and the International Space Station Angeliki P. Chondrou* , Sotiris P. Evgenidis*, Margaritis Kostoglou*, Thodoris D. Karapantsios* <i>*Department of Chemical Technology and Industrial Chemistry, Faculty of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece</i>
12:00-12:20	OP24 - In Situ Large-Scale H₂ Production from C1-Carriers: The Chemistry of Hybrid Materials in Catalytic Technology Maria Louloudi , Laboratory of Biomimetic Catalysis & Hybrid Materials, Department of Chemistry, University of Ioannina, Ioannina, Greece
12:20-12:40	OP25 - Integrated Bio/Waste-Refinery Towards Chemicals, Polymers and Fuels Antigoni Margellou* , Christina Pappa*, Kyriazis Rekos*, Petros Soldatos*, Soultana Ioannidou* , Stylianos Torofias*, Georgios Iakovou*, Konstantinos Triantafyllidis* <i>*Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece</i>
12:40-12:50	OP26 - A Comparative Study of Biodiesel Production from Waste Cooking Olive Oil and Sunflower Oil Vasiliki Paschou* , Elissavet Emmanouilidou*** , Anastasia Lazaridou*, Nikolaos Kokkinos**** , Sophia Mitkidou*** <i>*School of Chemistry, Faculty of Sciences, Democritus University of Thrace, Kavala, Greece</i> <i>**Petroleum Institute, Democritus University of Thrace, Kavala, Greece</i> <i>***Hephaestus Laboratory, Faculty of Sciences, Democritus University of Thrace, Kavala, Greece</i>

2nd Day Thursday 26th September 2024

"Alkis Argyriadis" Amphitheatre

12:50-13:00	OP27 - Selective Photocatalytic Oxidation of Biomass-Derived 5-Hydroxymethylfurfural by Advanced 1D Nanomaterials Dimitrios A. Giannakoudakis* , Athanasia Kotsaridou*, Mariusz Barczak**, Konstantinos Triantafyllidis* <i>*Laboratory of Chemical and Environmental Technology, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece</i> <i>**Faculty of Chemistry, Maria Curie-Skłodowska University, Lublin, Poland</i>
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13:00-14:30 Lunch Break

Moderators: Christos Kokkinos (NKUA), Christos Kontoyiannis (UPatras)

14:30-14:50	SL03 - LC MS/MS Workflow for Fast and Precise Chemical Contaminates Analysis in Food and Environmental Samples Jianru Stahl-Zeng , Sr. Technical Manager, Global Technical Leads, ABSCIEX, Darmstadt, Germany 
14:50-15:00	Award Ceremony Lifelong Achievements Awards in Analytical Chemistry Awardee: Triantafyllos Albanis , University of Ioannina
15:00-15:20	OP28 - Analyte Identification in Untargeted Analysis. Chromatography Matters Georgios Theodoridis^{1,2} ¹ Aristotle University Thessaloniki, Dept. Chemistry, Greece, ² Aristotle University Thessaloniki, Biomic_AUTh, CIRI, Themi, Greece
15:20-15:40	OP29 - 3D Printable Conductive Filaments for Electrochemical Sensing Leonidas Papagiannakopoulos , Eleni Koukouviy, Vasiliki Polyzopoulou, Maria Kartsakli , Maria Marakomichelaki, Eleni Sorkou, Anastasios Economou, Christos Kokkinos Laboratory of Analytical Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece
15:40-15:50	OP30 - A Bioanalytical LC-MS/MS Approach to Quantify a Novel Antisense Oligonucleotide Drug Designed for Parkinson's Disease. Method Application in Brain Tissue Following Intracerebroventricular Administration Anastasia Palaiologou* , Marianna Naki****, Marina Pantazopoulou*, Fedon-Giasin Kattan** , Leonidas Stefanis*, Epaminondas Doxakis**, Constantin Tamvakopoulos* <i>*Center of Clinical Research, Experimental Surgery and Translational Research, Biomedical Research Foundation, Academy of Athens, Athens, Greece</i> <i>**Center of Basic Research, Biomedical Research Foundation, Academy of Athens, Athens, Greece</i> <i>***Department of Physiology, National and Kapodistrian University of Athens (NKUA), Athens, Greece</i>


2nd Day Thursday 26th September 2024

"Alkis Argyriadis" Amphitheatre

15:50-16:00	OP31 - Bismuth Film Along with dsDNA-Modified Electrode Surfaces as Promising (bio)Sensors in the Analysis of Heavy Metals in Soils Vasiliki Keramari*, Sotiria G. Papadimou**, Evangelia E. Golia**, Stella Girousi* <i>*Analytical Chemistry Laboratory, School of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece</i> <i>**Laboratory of Soil Science, School of Agriculture, Aristotle University of Thessaloniki, Thessaloniki, Greece</i>
16:00-16:10	OP32 - Introducing a Holistic 4D-Metabolomics Workflow in Food Authenticity Studies: Exploiting the Potential of Trapped Ion Mobility Combined with LC-HRMS in the Case Study of Extra Virgin Olive Oil Sofia Drakopoulou*, Anastasia Kritikou*, Carsten Baessmann**, Nikolaos Thomaidis* <i>* National and Kapodistrian University of Athens, Department of Chemistry, Laboratory of Analytical Chemistry, Panepistimiopolis Zografou, Athens, Greece</i> <i>Track4Value - NKUA spinoff, Athens, Greece</i> <i>** Bruker Daltonics GmbH & Co. KG, Bremen, Germany</i>
16:10-16:20	OP33 - A Metabolomics Approach to Access the Effects of Biostimulants and Plant Protection Products (PPPs) on Cannabis (<i>Cannabis Sativa</i> L.) Metabolism Christos N. Kerezoudis*, Dimitrios I. Bilalis**, Konstantinos A. Aliferis* <i>*Agricultural University of Athens, Laboratory of Pesticide Science, Athens, Greece</i> <i>**Agricultural University of Athens, Laboratory of Agronomy, Athens, Greece</i>
16:20-16:30	OP34 - Bio-Conjugated Paper Disks as Analytical Platforms for Quantum Dot-Based Fluorescence Assay of Carcinoembryonic Antigen Electra Mermiga¹, Varvara Pagkali¹, Anastasios Economou¹, Christos Kokkinos¹ <i>¹Department of Chemistry, National and Kapodistrian University of Athens, Panepistimiopolis, Athens, Greece</i>

16:30-17:00 Coffee Break

Moderators: Nikolaos Kaplaneris (HIMS), Maria Louloudi (UoI)

17:00-17:10	OP35 - Recent Developments in Fast Food Testing: MALDI-HRMS for Crucial Authenticity Challenges Anastasia S. Kritikou***, Nikolaos S. Thomaidis*** <i>* National and Kapodistrian University of Athens, Department of Chemistry, Laboratory of Analytical Chemistry, Panepistimiopolis Zografou, Athens, Greece</i> <i>** Track4Value NKUA spin-off company, Athens, Greece</i> <i>*** Track4Value NKUA spin-off company, Athens, Greece</i>
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2nd Day Thursday 26th September 2024

"Alkis Argyriadis" Amphitheatre

17:10-17:20	OP36 - Development of a Green Extraction Process from Residues of Assyrtiko Wine Production for Cosmetic Applications Styliani Kalafateli*, Agni-Areti Freri*, Andromachi Tzani*, Georgios Stavropoulos**, Anastasia Detsi* <i>*Laboratory of Organic Chemistry, School of Chemical Engineering, National Technical University of Athens, Zografou Campus, Athens, Greece</i> <i>**KORRES SA-NATURAL PRODUCTS, Oinofita Viotia, Greece</i>
17:20-17:30	OP37 - Repurposing Organic Molecules as Promoters for the Photochemical Upcycling of Waste Naya A. Stini*, Vera P. Demertzidou*, Petros L. Gkizis*, Konstantinos Spyrou**, Konstantinos S. Triantafyllidis***, Dimitrios P. Gournis**, Panayiotis A. Koutentis****, Christoforos G. Kokotos* <i>*Laboratory of Organic Chemistry, Department of Organic Chemistry, National and Kapodistrian University of Athens, Athens, Greece</i> <i>**Department of Materials Science & Engineering, University of Ioannina, Ioannina, Greece</i> <i>***Department of Chemistry, Aristotle University of Thessaloniki (AUTH), Greece</i> <i>****Department of Chemistry, University of Cyprus, Nicosia, Cyprus</i>
17:30-17:40	OP38 - Activated Carbon Pellets vs. Raschig Rings: Finding the Best Packing Material for Biomethanation in Trickle Bed Reactors Aikaterini Xirostylidou^{1,2}, Maria Gaspari², Konstantinos N. Kontogiannopoulos², Anastasios Zouboulis¹, Panagiotis G. Kougias² <i>¹Laboratory of Chemical and Environmental Technology, Department of Chemistry, Faculty of Sciences, Aristotle University of Thessaloniki, Thessaloniki, Greece</i> <i>²Soil and Water Resources Institute, Hellenic Agricultural Organization-Dimitra, Thessaloniki, Greece</i>
17:40-17:50	OP39 - Natural Deep Eutectic Solvents as Innovative Inhibitors of the Enzyme Mushroom Tyrosinase Maria-Anna Karadendrou*, Anthi-Anastasia Triantafyllopoulou*, Andromachi Tzani*, Anastasia Detsi* <i>*Laboratory of Organic Chemistry, School of Chemical Engineering, National Technical University of Athens, Zografou Campus, Athens, Greece</i>
17:50-18:00	OP40 - Validating Biological Methanation in Pilot Scale Conditions Alexandros Chatzis^{1,2}, Aikaterini Xirostylidou^{1,2}, Kostas Kontogiannopoulos², Anastasios Zouboulis¹, Panagiotis Kougias² <i>¹Laboratory of Chemical and Environmental Technology, Department of Chemistry, Faculty of Sciences, Aristotle University of Thessaloniki, Thessaloniki, Greece</i> <i>²Soil and Water Resources Institute, Hellenic Agricultural Organisation DIMITRA, Thessaloniki, Greece</i>


2nd Day Thursday 26th September 2024

"Alkis Argyriadis" Amphitheatre

18:00-18:24	Flash Posters Presentations
	Green Chemistry – Chemical Technology – Chemical Engineering
18:00-18:03	FP10 - Upcycling of Polystyrene Plastics Using Photocatalysis Elpida Skolia* , Olga G. Mountanea*, Christoforos G. Kokotos* <i>*Laboratory of Organic Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece</i>
18:03-18:06	FP11 - Green Extraction Process of <i>Sideritis Scardica</i> Using Natural Deep Eutectic Solvents for Cosmetic Applications Anna Karantoni* , Maria-Anna Karadendrou*, Ioanna Pitterou*, Kyriaki Safari*, Georgios Stavropoulos**, Anastasia Detsi*, Andromachi Tzani* <i>*Laboratory of Organic Chemistry, School of Chemical Engineering, National Technical University of Athens, Athens, Greece</i> <i>**KORRES SA-NATURAL PRODUCTS, Oinofita Viotia, Greece</i>

	Organic Chemistry
18:06-18:09	FP12 - Novel Hybrid Photocatalysts for the Photochemical Aerobic Upcycling of Plastics Vera P. Demertzidou* , Naya A. Stini*, Konstantinos Spyrou**, Konstantinos S. Triantafyllidis***, Dimitrios P. Gournis****, Christoforos G. Kokotos* <i>*Laboratory of Organic Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece</i> <i>**Department of Materials Science & Engineering, University of Ioannina, Ioannina, Greece</i> <i>***Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece</i> <i>****School of Chemical and Environmental Engineering, Technical University of Crete, Chania, Greece</i>
18:09-18:12	FP13 - Exploiting Benzothioxanthene Imides for the On-Water Photochemical Oxidation of Sulfides Stamatis K. Serviou* , Petros L. Gkizis*, Darío Puchán Sánchez**, Nathan Plassais****, Frédéric Gohier**, Clement Cabanetos**, Christoforos G. Kokotos* <i>*Laboratory of Organic Chemistry, Department of Organic Chemistry, National and Kapodistrian University of Athens, Athens, Greece</i> <i>**CNRS, MOLTECH-ANJOU, SFR-MATRIX, Angers, France</i> <i>***Department of Physics, University of Seoul, Seoul, Republic of Korea</i>

2nd Day Thursday 26th September 2024

"Alkis Argyriadis" Amphitheatre

	Analytical Chemistry – Quality Control
18:12-18:15	FP14 - Whole Blood Untargeted Metabolomics in Three Microsampling Devices Using GC- MS: An Optimization Study Marlene Thaitumu** , Daniel M. de Sá e Silva**,**, Georgios Theodoridis****, Gika Helen** <i>*Aristotle University of Thessaloniki, School of Medicine, Thessaloniki, Greece</i> <i>**Aristotle University of Thessaloniki, Biomic_Auth, Center for Inter-Disciplinary Research, Themi, Greece</i> <i>***Aristotle University of Thessaloniki, Department of Chemistry, Thessaloniki, Greece</i>
18:15-18:18	FP15 - Optimization of Parameters for Particle Size Distribution of Fluticasone Propionate in Nasal Sprays Through Micro-RAMAN Spectroscopy Michail Lykouras* , Ioanna Chrisikou*, Malvina Orkoula**, Christos Kontoyannis*. ** <i>*Institute of Chemical Engineering Sciences, Foundation for Research and Technology Hellas, Patras, Greece</i> <i>**Department of Pharmacy, University of Patras, Patras, Greece</i>
18:18-18:21	FP16 - Qualitative XRPD Identification of Pharmaceutical Suspensions: The Case of Phenobarbital Michail Psimarnis*** , Andreas Tsironis**, Malvina Orkoula**, Christos Kontoyannis*. ** <i>*Institute of Chemical Engineering Sciences, Foundation for Research and Technology Hellas, Patras, Greece</i> <i>**Department of Pharmacy, University of Patras, Patras, Greece</i>
18:21-18:24	FP17 - LC-HRMS Based Wide-Scope Target Screening for the Assessment of Organic Micropollutants in European Apex Predators and Their Prey Georgios Gkotsis* , Maria-Christina Nika*, Varvara Nikolopoulou*, Nikiforos Alygizakis*, Erasmia Bizani*, Nikolaos S. Thomaidis* <i>*National and Kapodistrian University of Athens, Athens, Greece</i>

18:30-20:00 Poster Session A



ΧΡΟΝΙΑ

Παράγουμε Ελληνικό Φάρμακο

ΓΙΑ ΑΣΘΕΝΕΙΣ | ΚΟΙΝΩΝΙΑ | ΟΙΚΟΝΟΜΙΑ

 ΠΑΝΕΛΛΗΝΙΑ
ΕΝΩΣΗ
ΦΑΡΜΑΚΟΒΙΟΜΗΧΑΝΙΑΣ

για την ΥΓΕΙΑ

- Το Ελληνικό Φάρμακο μπορεί να καλύψει άμεσα το 70% των αναγκών της **ΠΡΩΤΟΒΑΘΜΙΑΣ ΠΕΡΙΘΑΛΨΗΣ** και το 50% των αναγκών της **ΝΟΣΟΚΟΜΕΙΑΚΗΣ ΠΕΡΙΘΑΛΨΗΣ**
- Η ανάδειξη και στήριξη του Ελληνικού Φαρμάκου είναι **ΕΘΝΙΚΗ ΠΡΟΤΕΡΑΙΟΤΗΤΑ**, με μια **ΕΘΝΙΚΗ ΠΟΛΙΤΙΚΗ ΦΑΡΜΑΚΟΥ** και με **ΚΙΝΗΤΡΑ** σε Γιατρούς & Φαρμακοποιούς

Με αυτόν τον τρόπο μπορούμε να πετύχουμε:

- **ΜΕΙΩΣΗ** στις άσκοπες εισαγωγές ακριβών φαρμάκων
- **ΠΕΡΙΟΡΙΣΜΟ** του ελλείμματος στο ισοζύγιο εμπορικών συναλλαγών στα φάρμακα
- **ΕΞΟΙΚΟΝΟΜΗΣΗ** πόρων για τα καινοτόμα φάρμακα που πραγματικά χρειαζόμαστε

για την ΚΟΙΝΩΝΙΑ

Το Ελληνικό Φάρμακο είναι:

- **ΑΠΟΤΕΛΕΣΜΑΤΙΚΟ** και **ΑΣΦΑΛΕΣ** γιατί πιστοποιείται από τους σημαντικότερους Οργανισμούς Φαρμάκου παγκοσμίως
- **ΠΟΙΟΤΙΚΟ** γιατί παράγεται σε ελληνικά εργοστάσια που ακολουθούν αυστηρά τα διεθνή πρότυπα διασφάλισης ποιότητας
- **ΔΙΕΘΝΩΣ ΑΝΑΓΝΩΡΙΣΜΕΝΟ** γιατί εκατομμύρια ασθενείς σε περισσότερες από 140 χώρες το εμπιστεύονται καθημερινά
- **ΠΡΟΣΙΤΟ** για τον Έλληνα ασθενή γιατί μειώνει το κόστος συμμετοχής των ασφαλισμένων

για την ΑΝΑΠΤΥΞΗ

- Παράγεται σε 45 υπερσύγχρονα ελληνικά **ΕΡΓΟΣΤΑΣΙΑ**
- Επηρεάζει πάνω από **53.000 ΘΕΣΕΙΣ ΕΡΓΑΣΙΑΣ**
- Κατέχει την **2η ΘΕΣΗ ΣΤΙΣ ΕΞΑΓΩΓΕΣ** της Ελλάδας
- Εξάγεται σε **147 ΧΩΡΕΣ**
- Για κάθε €1.000 δαπάνης το **ΑΕΠ ΕΝΙΣΧΥΕΤΑΙ** κατά €3.420
- Συμβάλει συνολικά με **€2,8 δισ.** το χρόνο στο **ΑΕΠ**
- Η ελληνική φαρμακοβιομηχανία υλοποιεί την πενταετία 2021-2025 ένα μεγάλο επενδυτικό πρόγραμμα ύψους **1,2 δισ. Ευρώ** σε παραγωγή, έρευνα και ανάπτυξη.

Posters

23rd Panhellenic
Chemistry
Conference
with International Participation


Poster Session A Thursday 26th September 2024
"Ioannis Drakopoulos" Foyer
PP01
In Silico Analysis and Exploitation of Toxicological Data of Per- and Polyfluoroalkyl Substances (PFAS) Derivatives
Marianthi Papathanasiou*, Georgia Melagraki**

**Medical School, National and Kapodistrian University of Athens, Athens, Greece*
***Division of Physical Sciences & Applications, Hellenic Military Academy, Vari, Greece*
PP02
Contribution of the Greek Node to the METROFOOD-RI Early Phase Implementation Working Plan
Aggeliki G. Kalogeropoulou*, Evangelia Vouvoudi*, Panagiota Alvanoudi*, Stergiani A. Ordoudi*, Natasa Kalogiouri**, Nikolaos Nenadis*, Fani Th. Mantzouridou*, Maria Z. Tsimidou*, Claudia Zoani***

**AUTH (Aristotle University of Thessaloniki), School of Chemistry, Lab. Food Chemistry & Technology,*
*** ibid, Lab. Analytical Chemistry*
****ENEA, Italian National Agency for New Technologies, Energy & Sustainable Economic Development, Dept. for Sustainability, Biotechnology and Agroindustry Division (SSPT-BIOAG), Casaccia Research Center, Rome, IT*
PP03
Bi-Functional Zeolitic Solid Catalysts in Agricultural Residues Fractionation
Stamatina A. Karakoulia¹, Stelios D. Stefanidis¹, Anna Maria Tzika¹, Anthi Karnaouri^{2,3}, Evangelos Topakas³, Konstantinos G. Kalogiannis^{1,4}, Aggelos A. Lappas¹
¹Chemical Process and Energy Resources Institute (CPERI), Centre for Research and Technology Hellas (CERTH), Thessaloniki, Greece
²Laboratory of General and Agricultural Microbiology, Department of Crop Science, Agricultural University of Athens, Athens, Greece
³Industrial Biotechnology & Biocatalysis Group, School of Chemical Engineering, National Technical University of Athens, Zografou Campus, Greece
⁴Department of Chemical Engineering, University of Western Macedonia, Kozani, Greece
PP04
Synthesis and Characterization of Modified MOS₂ Nanosheets Coordinated with Metallo-Porphyrin and Metallo-Phthalocyanine
Eleni Nikoli*, Ioanna K. Sideri*, Nikos Tagmatarchis*

**National Hellenic Research Foundation, Theoretical and Physical Chemistry Institute, Athens, Greece*
Poster Session A Thursday 26th September 2024
"Ioannis Drakopoulos" Foyer
PP05
Engineering of Advanced Nanocarbons for MOF Hybridization
Ioanna K. Sideri*, Georgia Basina*, Giasemi K. Angeli*, Nikos Tagmatarchis*

**National Hellenic Research Foundation, Theoretical and Physical Chemistry Institute, Athens, Greece*
PP06
Towards the Design of a Reversibly Cross-Linked HDPE
Christina Samiotaki*, Alexandra Zamboulis*, Evangelia Tarani**, Konstantinos Chrissafis**, Dimitrios N. Bikiaris*

**Laboratory of Polymer Chemistry and Technology, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece*
***Laboratory of Advanced Materials and Devices, School of Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece*
PP07
Thermal Isomerisation of Bicyclo[2.2.2]Octadienones Into Tricyclo[3.3.0.0]Octenones
Sofia Anastasiadou*, Christos Anagnostopoulos*, Petros Douvlekas*, Christos Kalogiros*, Aikaterini-Eirini Martini*, Lazaros P. Hadjiarapoglou*

**Department of Chemistry, University of Ioannina, Ioannina, Greece*
PP08
Chitosan/Curcumin/Activated Carbon Adsorbents for the Removal of Ibuprofen from Wastewater
Natalia Malouchi*, Athanasia K. Tolkou**, Konstantinos N. Maroulas**, Ioannis A. Katsoyiannis*, George Z. Kyzas**

**Laboratory of Chemical and Environmental Technology, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece*
***Hephaestus Laboratory, School of Chemistry, Faculty of Sciences, Democritus University of Thrace, Kavala, Greece*
PP09
Diels-Alder Cycloadditions of In Situ Generated Masked O-Benzquinones with Alkenes
Leandros Polychronis*, Christos Anagnostopoulos*, Eirini Tileli*, Lazaros Hadjiarapoglou*

**Department of Chemistry, University of Ioannina, Ioannina, Greece*


Poster Session A Thursday 26th September 2024
"Ioannis Drakopoulos" Foyer
PP10
Photoinduced Synthesis of Quinolines from Anilines and Aldehydes
Christos Triantafyllidis*, Ioannis N. Lykakis*
**Aristotle University of Thessaloniki, Thessaloniki, Greece*
PP11
Biofilm Formation by Pseudomonas Fluorescens SBW25 at Solid-Liquid Interfaces
Dimitrios I. Avgoulas*, Maria Petala, Margaritis Kostoglou*, Thodoris D. Karapantsios***
**Laboratory of Chemical and Environmental Technology, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece*
***Laboratory of Environmental Engineering and Planning, Department of Civil Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece*
PP12
Synthesis of Innovative Dental Resins Derived from Chemical Recycling Products of Polyethylene Terephthalate (PET)
Stefanos Karkanis*, Alexandros Nikolaidis, Elisabeth Koulaouzidou**, Dimitris Achilias***
**Laboratory of Polymer and Color Chemistry and Technology, Department of Chemistry, Aristotle University Thessaloniki, Thessaloniki, Greece*
***Division of Dental Tissues' Pathology and Therapeutics (Basic Dental Sciences, Endodontology and Operative Dentistry), School of Dentistry, Aristotle University Thessaloniki, Thessaloniki, Greece*
PP13
Divergent Synthesis as a Tool to Expand the Chemical Space: The Case Study of 8,12-Sesquiterpenoid Lactones
Maria Kourgiantaki*, Vera P. Demertzidou*, Alexandros L. Zografos*
**Laboratory of Organic Chemistry, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece*
PP14
Graphene-Manganese Porphyrin Nanoensembles for Energy Applications
Michail P. Minadakis*, Nikos Tagmatarchis*
**Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation, Athens, Greece*
Poster Session A Thursday 26th September 2024
"Ioannis Drakopoulos" Foyer
PP15
Visible Light-Driven Protocol to N-Arylhydroxylamines: An Effective Pathway to Indole Synthesis
Kyriakos Nikopoulos*, Michael G. Kallitsakis*, Ioannis N. Lykakis*
**Department of Chemistry, Aristotle University of Thessaloniki, University Campus, Thessaloniki, Greece*
PP16
 α -Iminonitriles as Versatile Building Blocks for the Synthesis of 2-Substituted Imidazolines and Oxazolines
Argyro F. Dolla*, Ioannis N. Lykakis*
**Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece*
PP17
Synthesis of 6,12-Guaianolide Lactones of *Osmitopsis Asteriscoides* and Related Congeners
Kalliopi Mazaraki¹, Alexandros L. Zografos¹
¹Aristotle University of Thessaloniki, Department of Chemistry, Laboratory of Organic Chemistry, University Campus, Thessaloniki, Greece
PP18
Rational Design, Synthesis and Evaluation of Mitoxantrone Conjugated with Mutated Gonadotropin Releasing Hormone for the Treatment of Hormone-Dependent Cancer
Georgia Biniari*, Agathi Nteli*, Christos Markatos, Vlasios Karageorgos**, Alexios Vlamis-Gardikas*, George Liapakis**, Maria Venihaki***, Theodore Tselios*, Carmen Simal***
**Department of Chemistry, University of Patras, Rion, Greece*
***Department of Pharmacology, School of Medicine, University of Crete, Heraklion, Greece*
****Department of Clinical Chemistry, School of Medicine, University of Crete, Heraklion, Greece*
PP19
Alkali Hydrolysis of Wool Fibres Using Microwave Irradiation and Characterisation of the Hydrolysates and Amino Acids Yield
Evangelia Vouvoudi¹, Maria Dimaki¹, Nina Maria Ainali^{1,2}, Lelouda-Athanasia Koronaiou^{2,3}, Dimitra Lambropoulou^{2,3}, Nikolaos F. Nikolaidis¹, Dimitrios Bikiaris¹
¹Laboratory of Polymers and Colours Chemistry and Technology, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece
²Laboratory of Environmental Pollution Control, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece
³Center for Interdisciplinary Research and Innovation (CIRI-AUTH), Balkan Center, Thessaloniki, Greece


Poster Session A Thursday 26th September 2024
"Ioannis Drakopoulos" Foyer
PP20
Iodonium Salt Mediated Sulfide Oxidation

Elisavet Avramidou*, Agapi K. Triandafyllou*, Stavroula A. Zisopoulou*, Naya A. Stini**, Vera P. Demertzidou**, Christoforos G. Kokotos**, John K. Gallos*, Petros L. Gkizis***

*Laboratory of Organic Chemistry, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece

**Laboratory of Organic Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece

PP21
Coulombic Association of Ammonium-Modified MoS₂ with Carboxylated Zinc Porphyrin

Michalis Kardaras*, Ioanna K. Sideri*, Eleni Nikoli*, Nikos Tagmatarchis*

*National Hellenic Research Foundation, Theoretical and Physical Chemistry Institute, Athens, Greece

PP22
Design and Characterization of New Polymer Matrices for Maldi-Tof Mass Spectrometry

Maria Nikolitsa Tsakanika*, Eleni Aleiferi**, Dimitrios Damalas**, Anastasia S. Kritikou**, Nikolaos S. Thomaidis**, George Sakellariou*

*Laboratory of Industrial Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece

**Laboratory of Analytical Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece

PP23
Resurfacing Water as a Green and Sustainable Solvent for a Variety of Organic Transformations

Periklis X. Kolagkis*, Eirini M. Galathri*, Christoforos G. Kokotos*

*Laboratory of Organic Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece

PP24
Photochemical Aerobic Upcycling of Plastic Polystyrene Waste Gathered from a School: An Innovative Step Towards Circular Economy

Antonios Misthos*, Olga G. Mountanea**, Christoforos G. Kokotos**

*Athens College IBDP, Psychico, Greece

**Laboratory of Organic Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece

Poster Session A Thursday 26th September 2024
"Ioannis Drakopoulos" Foyer
PP25
Synthesis, Characterization and Properties Assessment of Chemically Modified MoS₂ Nanosheets with Zinc Phthalocyanine

Marina Tsigkou*, Eleni Nikoli*, Ioanna K. Sideri*, Nikos Tagmatarchis*

*National Hellenic Research Foundation, Theoretical and Physical Chemistry Institute, Athens, Greece

PP26
Monitoring and Optimizing Synthesis Reactions of Chalcones via GC-MS Analysis

Dimitra Gianniou*, Katerina Katsivelou*, Valeria Katsoti*, Charalambia Krokou*, Stella Liotsaki*, Maria Christofidi*, Nikolaos Kokkinos****, Sophia Mitkidou***

*School of Chemistry, Faculty of Sciences, Democritus University of Thrace, Kavala, Greece

**Petroleum Institute, Democritus University of Thrace, Kavala, Greece

***Hephaestus Laboratory, Faculty of Sciences, Democritus University of Thrace, Kavala, Greece

PP27
Lessons from Nature: Mimicking the Oxidase Phase of Costunolide to Access Complex Sesquiterpenoid Lactones or Polymeric Sesquiterpenoids

Kyriaki Gennaiou*, Alexandros Zografos*

*Laboratory of Organic Chemistry, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece

PP28
Noble Metals Recovery from Medical Waste Devices

Anastasios Zouboulis, Evgenios Kokkinos, Theodosios Tsiogkas, Aggeliki Lampou

Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece

PP29
Mining Waste Valorization in AMD Neutralization

Evgenios Kokkinos, Maria Giannakoudi, Anastasios Zouboulis

Laboratory of Chemical and Environmental Technology, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece


Poster Session A Thursday 26th September 2024
"Ioannis Drakopoulos" Foyer
PP30
Novel Acidic Porous Titanate (Hydroxy)Oxide Nanoparticles for Additive-Free Photochemical Upcycling of Plastics
Dimitrios A. Giannakoudakis*, Athanasia Kotsaridou*, Konstantinos Triantafyllidis*
**Laboratory of Chemical and Environmental Technology, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece*
PP31
CO₂ Hydrogenation to Light Olefins Over Layered Double Hydroxides Derived Mixed Oxides
Athanasia Kotsaridou*, Antigoni Margellou*, Evridiki Mandela, Michail Konsolakis***, George Marnellos****, Konstantinos Triantafyllidis***
**Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece*
***Department of Mechanical Engineering, University of Western Macedonia, Kozani, Greece*
****School of Production Engineering and Management, Technical University of Crete, Chania, Greece*
*****Department of Chemical Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece*
PP32
Homogeneous and Heterogeneous Catalytic Conversion of Xylose Towards Furfural and Furanic Adducts-Oxygenated Fuels Precursors via Dehydration and Aldol Condensation Reactions
Soultana Ioannidou*, Antigoni Margellou*, Konstantinos Triantafyllidis***
**Department of Chemistry, Aristotle University of Thessaloniki, Greece*
***Chemical Process & Energy Resources Institute, CERTH, Thessaloniki, Greece*
PP33
Pseudo-Hemi-Indigo Derivatives: A Theoretical Study and the Potential Application as Molecular Logic Gates
Christina-Eleftheria Tzeliou*, Demeter Tzeli*, **
**Laboratory of Physical Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Panepistimiopolis Zografou, Athens, Greece*
***Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation, Athens, Greece*
PP34
Isolation of Siderol from *Sideritis Scardica* and Synthesis of Novel Ester Analogues
Spyridoula T. Loukatou, Fotini N. Lamari, Sotirios S. Nikolaropoulos
Department of Pharmacy, University of Patras, Patras, Greece
PP35
Characterization of Pure Polymers and Plastic Wastes Towards Rational Chemical Recycling
Stylianios Torofias*, Antigoni Margellou*, Petros Soldatos*, Konstantinos Triantafyllidis*
**Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece*
Poster Session A Thursday 26th September 2024
"Alkis Argyriadis" Foyer
PP36
Pharmacochemical Study of Cinnamic Hybrids with Biological Interest
Ioanna-Chrysoula Tsopka, Dimitra Hadjipavlou-Litina
Department of Pharmaceutical Chemistry, School of Pharmacy, Aristotle University of Thessaloniki, Thessaloniki, Greece
PP37
Synthesis of Coumarin-Isoxazole-Pyridine Hybrids with Biological Interest
Matina D. Douka*, Dimitra J. Hadjipavlou-Litina, Konstantinos E. Litinas***
**Laboratory of Organic Chemistry, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece*
***Department of Pharmaceutical Chemistry, School of Pharmacy, Faculty of Health Sciences, Aristotle University of Thessaloniki, Thessaloniki, Greece*
PP38
Synthesis and Biological Evaluation of V-Type Nerve Agent Mimics
Stavroula Kostoudi*, Nikolaos Iatridis*, Eleni Pontiki**, Dimitra Hadjipavlou-Litina**, Georgios Pampalakis***
**Laboratory of Pharmacology, School of Pharmacy, Aristotle University of Thessaloniki, Thessaloniki, Greece*
***Laboratory of Pharmaceutical Chemistry, School of Pharmacy, Aristotle University of Thessaloniki, Thessaloniki, Greece*
PP39
Dyeing properties of poly(lactic acid) fibers dyed with Disperse Dyes, compared to poly(ethylene terephthalate) fabric
Smaro Lykidou*, Evangelia Vouvoudi*, Nikolaos Nikolaidis*
**Laboratory of Polymers and Colours Chemistry and Technology, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece*
PP40
Double Hydrosilylation of Nitriles With Et₂SiH₂ Catalyzed by Au/TiO₂
Maria Ioanna Karapanou, Dimitra Malliotaki, Manolis Stratakis
Department of Chemistry, University of Crete, Voutes, Heraklion, Greece


Poster Session A Thursday 26th September 2024
"Alkis Argyriadis" Foyer
PP41
Hybrids of Choline Against Neurological Disorders
Christos Triantafyllou^{*}, Iliana Papandopoulou^{*}, Dimitra Hadjipavlou-Litina^{*}
Laboratory of Pharmaceutical Chemistry, School of Pharmacy, Faculty of Health Sciences, Aristotle University of Thessaloniki, Thessaloniki, Greece
PP42
Free Energy Landscape of the PI3Kα C-Terminal Activation
Danai Maria Kotzampasi^{1,2}, Michail Papadourakis¹, John E. Burke^{3,4}, Zoe Cournia¹
¹ Biomedical Research Foundation, Academy of Athens, Athens, Greece

² Department of Biology, University of Crete, Heraklion, Greece

³ Department of Biochemistry and Microbiology, University of Victoria, Victoria, BC, Canada

⁴ Department of Biochemistry and Molecular Biology, The University of British Columbia, Vancouver, BC, Canada

PP43
A Virtual Screening Approach to Target Allosteric Binding Sites on PI3Kα and PTEN
Lykourgos Chiniadis, Danai Maria Kotzampasi, Zoe Cournia
Biomedical Research Foundation, Academy of Athens, Athens, Greece
PP44
Studying the Dimerization of K-Ras4B^{G12D} through Atomistic Molecular Dynamics Simulations
Eliza M. Logiadi^{*,}, Panagiotis I. Koukos^{*}, Sepehr Dehghani-Ghahnaviyeh^{***}, Camilo Velez-Vega^{***}, José S. Duca^{***}, Zoe Cournia^{*}**
^{*} Biomedical Research Foundation, Academy of Athens, Athens, Greece

^{**} Medical School, National and Kapodistrian University of Athens, Athens, Greece

^{***} Computer-Aided Drug Discovery, Global Discovery Chemistry, Novartis Institutes for BioMedical Research, Cambridge, Massachusetts, United States

PP45
Reactions of (4-hydroxycoumarin-3-yl) Chalcones with Active Methylene Compounds. Base-Catalyzed Synthesis of 4-aryl-3,4-dihydro-2H,5H-pyrano[3,2-c]chromene-2,5-diones
Anastasia-Maria Antonaki^{*}, Dimitra J. Hadjipavlou-Litina^{}, Konstantinos E. Litinas^{*}**
^{*} Laboratory of Organic Chemistry, Chemistry Department, Aristotle University of Thessaloniki, Thessaloniki, Greece

^{**} Department of Pharmaceutical Chemistry, School of Pharmacy, Aristotle University of Thessaloniki, Thessaloniki, Greece

Poster Session A Thursday 26th September 2024
"Alkis Argyriadis" Foyer
PP46
Access to Novel Chemiluminescent Probes via One-Step Multicomponent Condensations
Michael Georgoulakis^{*}, Kostantinos Adamis, Costantinos G. Neochoritis
^{*} Department of Chemistry, University of Crete, Voutes, Heraklion, Greece

PP47
[2.2]Paracyclophanes: Arsenal for Diastereoselective Multicomponent Reactions
Michael Fragkiadakis^{*}, Michael Kapsalis^{*}, Konstantina Nikovia^{*}, Federico Vavassori^{}, Erica Benedetti^{**}, Constantinos G. Neochoritis^{*}**
^{*} Department of Chemistry, University of Crete, Voutes, Heraklion, Greece

^{**} Laboratoire de Chimie et Biochimie Pharmacologiques et Toxicologiques, Université Paris Cité, CNRS, Paris, France

PP48
Physicochemical Analysis of Liquid Whole Egg Processed by Manothermosonication Treatment
Grigorios Mavros^{*}, Enrique Beitia^{*,}, Vasilis Valdramidis^{*}, Kemal Aganovic^{*,**,*}**
^{*} Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece

^{**} German Institute of Food Technologies (DIL e.V.), Quakenbrück, Germany

^{***} Institute of Food Quality and Food Safety, University of Veterinary Medicine Hannover, Foundation, Hannover, Germany

PP49
Tuning of Thermometric Performances of Mixed Eu–Tb Metal–Organic Frameworks through Single-Crystal Coordinating Solvent Exchange Reactions
Andreas Kourtellis^{*}, William Lafargue-Dit-Hauret^{}, Florian Massuyeau^{**}, Camille Latouche^{**}, Anastasios J. Tasiopoulos^{***}, Hélène Serier-Brault^{**}**
^{*} Department of Life Sciences, School of Sciences, European University Cyprus, Nicosia, Cyprus

^{**} Institut des Matériaux de Nantes Jean Rouxel, IMN Nantes, France

^{***} Department of Chemistry, University of Cyprus, Nicosia, Cyprus


Poster Session A Thursday 26th September 2024
"Alkis Argyriadis" Foyer
PP50

Study of the Wine Lees By-Product Metabolomic and Peptidic Fingerprint Produced by Various Yeast Strains and Their Evaluation as Internal Circular Economy Agent Against Grapevine Pathogens

Alexandra Evangelou*, Maria Dimopoulou*, Danai Gkizi*, Aikaterini Tzamourani*, Artemis Tsioka*, George Ntourtoglou*, Angeliki Kasioura*, Vrhovsek Urska**, Panagiotis Arapitsas*

*Department of Wine, Vine and Beverage Sciences, University of West Attica, Athens, Greece

** Metabolomic Unit, Edmund Mach Foundation, San Michele all Adige, Italy

PP51

Utilization of Bio-Sources to Produce Diols and Glycols

Kyriazis C. Rekos***, Antigoni G. Margellou**, Konstantinos S. Triantafyllidis***

*Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece

** Center for Interdisciplinary Research and Innovation (CIRI), Balkan Center, Thessaloniki, Greece

PP52

Production and Characterization of Microbial Biomass from Methanotrophic Bacteria as an Alternative Protein Source

Theodora Traka*, Thomas Mavromoustakos*, Vasilis Valdramidis*, George Markou**

*National and Kapodistrian University of Athens, Athens, Greece

**HAO – DEMETER, Athens, Greece

PP53

Synthesis of new *N,N*-diaryl Ureas from Suitable Derivatives of 1*H*-pyrazole, 1*H*-imidazole, 1*H*-1,2,3-triazole and 2*H*-1,2,3-triazole with Potential Biological Activity

Eirini Tsemperlidou*, Christina Andritsou*, Maria Koltsidou*, Athanasia Bampleki*, Nikolaos Karousis*, George Varvounis*

*Section of Organic Chemistry and Biochemistry, Department of Chemistry, University of Ioannina, Ioannina, Greece

PP54

Patenting Activity in the Chemical Field in Greece

Alexios Thymiopoulos*, Christina Andrikopoulou*, Kyriaki Glynou*

*Hellenic Industrial Property Organization (OBI), Athens, Greece

Poster Session A Thursday 26th September 2024
"Alkis Argyriadis" Foyer
PP55

Determination of Phenethyl Isothiocyanate, Erucin, Iberverin and Erucin Nitrile Concentrations in Healthy and *PIERIS RAPAE*-Infected Broccoli Tissues Using Gas Chromatography-Mass Spectrometry

Irene-Dimitra Mesimeri*, Panagiota-Kyriaki Revelou*, Maroula G.Kokotou*

*Department of Food Science and Human Nutrition, Chemical Laboratories, Agricultural University of Athens, Athens, Greece

PP56

Molecular Dynamics Simulations of G-series agents: Physicochemical Properties, Structure, IR-spectra

Michail Chalaris*, Antonios Koufou*

*Hephaestus Laboratory, School of Chemistry, Faculty of Sciences, Democritus University of Thrace, Kavala, Greece

PP57

Novel Nanocomposite Eutectogels Incorporating Chrysin-Loaded Chitosan Nanoparticles

Ioanna Pitterou*, Kyriakos Kyriakopoulos*, Andromachi Tzani*, Anastasia Detsi*

*Laboratory of Organic Chemistry, School of Chemical Engineering, National Technical University of Athens, Athens, Greece

PP58

Valorization of Olive Leaves Extract in Natural Deep Eutectic Solvents for the Development of Bioactive Chitosan Hydrogels

Ioanna Pitterou*, Salomi Chinni*, Andromachi Tzani*, Anastasia Detsi*

*Laboratory of Organic Chemistry, School of Chemical Engineering, National Technical University of Athens, Athens, Greece

PP59

Proposing Numerical Analysis and Programming Solutions for Identifying Endocrine Disruptors from Chemical Weapons in Sensitive Water Bodies

Michail Chalaris*, Nikolaos Stasinopoulos*, Anastasia Tezari*

*Hephaestus Laboratory, School of Chemistry, Faculty of Sciences, Democritus University of Thrace, Kavala, Greece


Poster Session A Thursday 26th September 2024
"Alkis Argyriadis" Foyer
PP60

Determination of Free Fatty Acids in Alcoholic and Non-Alcoholic Beers Using Liquid Chromatography-High Resolution Mass Spectrometry

Christiana Mantzourani*, Maroula G. Kokotou*

*Laboratory of Chemistry, Department of Food Science and Human Nutrition, Agricultural University of Athens, Athens, Greece

PP61

A Novel Series of Metal-Organic Frameworks Based on Polynuclear Rare-Earth Metal Clusters

Panagiotis Oikonomopoulos, Giannis S. Papaefstathiou

Laboratory of Inorganic Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Zografou, Greece

PP62

Exploring The Effect of Cellulose Addition on The Structural and Thermal Properties of Poly(Lactic Acid) (PLA) – Based Films

Eleftheria Xanthopoulou*, Georgia Lathira*, Rafael Sanchez**, Pilar Albaladejo Sánchez**, Giacomo Marra***, Miguel Angel Valera***, Charilaos Xiros****, Zoe Terzopoulou*, Dimitrios Bikiaris*

*Laboratory of Polymer and Colors Chemistry and Technology, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece

** Instituto Tecnológico del Embalaje, Transporte y Logística, ITENE, Unidad Asociada al CSIC, Paterna, Valencia, Spain

*** AIMPLAS, Asociación de Investigación de Materiales Plásticos Y Conexas, Paterna, Valencia, Spain

**** RISE Processum AB, Örnköldsvik, Sweden

PP63

Sortion Study of Two Amide-Based MOFs Towards Heavy Metal Cations in Aqueous Environment

Panteleimon Kotidis*, Nikolas Anastasiadis**, Manolis J. Manos**, Giannis S. Papaefstathiou*

*Laboratory of Inorganic Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Zografou, Greece

** Laboratory of Inorganic Chemistry, Department of Chemistry, University of Ioannina, Ioannina, Greece

Poster Session A Thursday 26th September 2024
"Alkis Argyriadis" Foyer
PP64

Graphene Acid as a Recyclable Carbocatalyst for the Epoxidation of Alkenes Using Hydrogen Peroxide as The Green Oxidant

Efthymios T. Poursaitidis*, Olga G. Mountanea*, Demetrios D. Chronopoulos*, **Christoforos G. Kokotos***

*Laboratory of Organic Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece

PP65

Synthesis and Biological Evaluation of Unsymmetrical Monocarbonyl Curcumin Derivatives as Potential Autophagy Inducers in Neuronal Cells

Erika Lego*, Fedra Arvanitaki****, Nektarios Pirmettis**, Antonio Shegani**, **Alexia Victoria Polissidis***,***, Maria Xilouri****, **Marina Sagnou****

*Deree-The American College of Greece, School of Biomedical Sciences, Ag. Paraskevi, Greece

** National Centre for Scientific Research "Demokritos", Institute of Nuclear & Radiological Sciences and Technology, Energy & Safety and Institute of Biosciences and Applications, Ag. Paraskevi, Greece

*** Anacalypsis Therapeutics, Pikermi, Greece

****Biomedical Research Foundation of the Academy of Athens, Center of Clinical, Experimental Surgery, & Translational Research, Athens, Greece

PP66

Synthesis and Biological Evaluation of Novel Pyrazolo[3,4-b]Pyridines as Selective LRRK2 Inhibitors for Parkinson's Disease Treatment

Anna-Maria Kostaki*, **Marina Sagnou***, **, Theofania Tripolitsioti****, Hardy Rideout***. ****, **Alexia Polissidis****,***, **Veroniki P. Vidali***

*National Centre for Scientific Research "Demokritos", Institute of Nanoscience and Nanotechnology, and Institute of Biosciences and Applications, Ag. Paraskevi, Greece

**Deree-The American College of Greece, School of Science and Mathematics, ACG Research Center, Ag. Paraskevi, Greece

***Anacalypsis Therapeutics, Melissa, Greece

****Biomedical Research Foundation of the Academy of Athens, Center of Clinical, Experimental Surgery, & Translational Research, Athens, Greece

Poster Session A Thursday 26th September 2024

"Alkis Argyriadis" Foyer

PP67

Synthesis of Novel Aryl-Substituted Aurones via Suzuki-Miyaura Reaction and Evaluation of their Bioactivity

Vasiliki Kakokefalou*, Constantinos Heotis*, Annita Katopodi*, Andromachi Tzani*, Anastasia Detsi*

**Laboratory of Organic Chemistry, School of Chemical Engineering, NTUA, Athens, Greece*

PP68

Evaluation of Advanced Reduction Processes (ARPs) for the removal of Perfluoroalkyl compounds (PFAS)

Alexandra Spyrou*, Maria Antonopoulou*

**Department of Sustainable Agriculture, University of Patras, Agrinio, Greece*

PP69

Synthesis of Oxidized Biochar/LaCu_{0.25}Ni_{0.75}O₃ Composites for Enhanced Persulfates Activation and their Application in the Removal of the Antiviral Lamivudine

Foteini Zerva*, Christos Lykos*, Ioannis Konstantinou***

**Department of Chemistry, University of Ioannina, Ioannina, Greece*

***Institute of Environment and Sustainable Development, University Research Center of Ioannina (URCI), Ioannina, Greece*

PP70

Method Development and Application for the determination of Per- and Poly- Fluoroalkyl Substances (PFAS) in FISH SPECIES using modified QuEChERS and LC- HRMS

Ourlania Koloka*, Vasiliki Boti**, Dimitra Hela**, Triantafyllos Albanis**, Ioannis Konstantinou**

**Department of Chemistry, University of Ioannina, Ioannina, Greece*

***Institute of Environment and Sustainable Development, University Research and Innovation Center of Ioannina, Ioannina, Greece*

PP71

g-C₃N₄ Composite Photocatalysts for Environmental Remediation

Ioannis Konstantinou***, Dimitra Hela**, Triantafyllos Albanis**

**Department of Chemistry, University of Ioannina, Ioannina, Greece*

***Institute of Environment and Sustainable Development, University Research and Innovation Center, University of Ioannina, Ioannina, Greece*




3rd Day Friday 27th September 2024

"Ioannis Drakopoulos" Amphitheatre

Moderators: Victoria Magrioti (NKUA) - Gerasimos Rassias (UPatras)	
09:00-09:10	Award Ceremony Lifelong Achievements Awards in Medicinal Chemistry Awardee: George Kokotos , National and Kapodistrian University of Athens
09:10-09:30	OP41 - Design and Synthesis of Neuroprotective and Neurogenic Small Molecule Neurotrophin Mimetics Alessia Latorrata* , Daniele Narducci* , Thanasis Rogdakis**,* , Despoina Charou**,* , Theodora Katsila* , Achille Gravanis**,* , Kyriakos C. Prousis* , Ioannis Charalampopoulos**,* , Theodora Calogeropoulou* <i>*Institute of Chemical Biology, National Hellenic Research Foundation, Athens, Greece</i> <i>**IMBB, Foundation of Research & Technology-Hellas, Heraklion, Greece</i> <i>***Dept of Pharmacology, Medical School, University of Crete, Heraklion, Greece</i>
09:30-09:50	OP42 - Design, Synthesis and Antiproliferative Activity of Novel 2,6-Substituted Benzothiazoles Ioannis D. Kostas , Yakinthi Batsi , Georgia Antonopoulou , Theano Fotopoulou , Kassandra Koumaki , Eftichia Kritsi , Constantinos Potamitis , Maria Goulielmaki , Salomi Skarmalioraki , Chara Papalouka , Eleni Poulou-Sidiropoulou , Vivian Kosmidou , Stavroula Douna , Maria-Sofia Vidali , Eleni-Fani Gkotsi , Aristotelis Chatziioannou , Vassilis L. Souliotis , Vasiliki Pletsas , Olga Papadodima , Vassilis Zoumpourlis , Panagiotis Georgiadis , Maria Zervou , Alexander Pintzas <i>Institute of Chemical Biology, National Hellenic Research Foundation, Athens, Greece</i>
09:50-10:10	OP43 - Design and Synthesis of Affinity Probes to Profile HDAC or Kinase Drugs Guillaume Médard , <i>Proteomics Core Facility, School of Science, National and Kapodistrian University of Athens, Athens, Greece</i>
10:10-10:20	OP44 - Generating Raman-Active BRD4 Degradable Probes for Cellular Imaging Spyros Letsios* , Martin Lee** , Satya Shukla*** , Valerie Brunton** , Olivera Grubisha**** , Alison Hulme* <i>*EaStChem School of Chemistry, University of Edinburgh, Edinburgh, UK</i> <i>**Edinburgh Cancer Research, Institute of Genetics & Cancer, University of Edinburgh, Edinburgh, UK</i> <i>***UCB Pharma, Cambridge, Massachusetts, USA</i> <i>****UCB Pharma, Slough, UK</i>

3rd Day Friday 27th September 2024

"Ioannis Drakopoulos" Amphitheatre

10:20-10:30	OP45 - Saturated Hydroxy and Oxo Fatty Acids: Occurrence, Synthesis and Antiproliferative Activity Christiana Mantzourani* , Olga G. Mountanea* , Charikleia S. Batsika* , Dimitrios Gkikas** , Maroula G. Kokotou*** , Panagiotis K. Politis** , George Kokotos* <i>*Department of Chemistry and Center of Excellence for Drug Design and Discovery, National and Kapodistrian University of Athens, Panepistimiopolis, Athens, Greece.</i> <i>**Center for Basic Research, Biomedical Research Foundation of the Academy of Athens, Athens, Greece</i> <i>***Laboratory of Chemistry, Department of Food Science and Human Nutrition, Agricultural University of Athens, Athens, Greece</i>
10:30-10:40	OP46 - Intepirdine Derivatives Possessing Dual 5HT6 / HDAC6 Inhibitory Activity Andreas Gkanas^a , Maria Koutiva^a , Nicolaos Rokopoulos^a , Theodora Katsila^b , Vivi Bafiti^b , Minos-Timotheos Matsoukas^c , Vasilios Panagiotopoulos^c , Theodoros Gkouvisas^d , Georgios Moukas^e , Gerasimos Rassias^a <i>^aDepartment of Chemistry, University of Patras, Rio Campus, Achaia, Greece</i> <i>^bInstitute of Chemical Biology, NHRF, Athens, Greece</i> <i>^cDepartment of Biomedical Engineering, University of West Attica, Athens, Greece</i> <i>^dRontis, Head of Pharmaceutical Division, Athens, Greece</i> <i>^eClinical Psychiatry, Private Practice, Athens, Greece</i>
10:40-10:50	OP47 - MCR-Based Lipoids Paraskevi-Kleio Anastasiou , Marina Somaraki , Nikolaos Eleftheriadis , Constantinos G. Neochoritis <i>Department of Chemistry, University of Crete, Voutes, Heraklion, Greece</i>
10:50-11:00	OP48 - Synthesis of Novel Chloramphenicol-Amino Acid Derivatives with Enhanced Antimicrobial Activity Artemis Tsirogiani* , Georgia G. Kournoutou** , George Dinos** , Constantinos M. Athanassopoulos* <i>*Synthetic Organic Chemistry Laboratory, Department of Chemistry, University of Patras, Patras, Greece</i> <i>**Department of Biochemistry, School of Medicine, University of Patras, Patras, Greece</i>
11:00-11:30	Coffee Break


3rd Day Friday 27th September 2024

"Ioannis Drakopoulos" Amphitheatre

Moderators: Constantinos Athanasopoulos (UPatras) - Ioannis Lykakis (AUTH)	
11:30-11:50	SL04 - Past, Present and Next Future for PFAs, Understand the Emergency and Handle IT Emanuele Ceccon , <i>LC specialist Italy/Spain, Restek Italia S.r.l, Milan, Italy</i> 
11:50-12:20	INVLO7 - Sustainable Synthesis of High Value Organic Scaffolds Using Photocatalytic Cascade Sequences in Batch and Flow Artemis Bosveli, Ioannis Papadopoulos, Dimitris Kalaitzakis, Tamsyn Montagnon, Ioannis Zachilas, Ioannis Kampouropoulos, Nefeli Griboura, Manolis Sofiadis, Kalliopi Sfakianaki and Georgios Vassilikogiannakis <i>Department of Chemistry, University of Crete, Vasilika Vouton, Iraklion, Crete, Greece</i>
12:20-12:40	OP49 - Photoactivated Catalytic Chelate-Directed C-H Arylation of (6-Phenylpyridin-2-yl) Pyrimidines and Heteroaryl Counterparts Savvas N. Georgiades*, Ioakeim M. Antoniou*, Natalia Ioannou*, Nikos Panagiotou* <i>*University of Cyprus, Department of Chemistry, Nicosia, Cyprus</i>
12:40-13:00	INVYL02 - Photocatalytic Functionalization of Dehydroalanine-Derived Peptides in Batch and Flow Nikolaos Kaplaneris*, Merve Akdeniz*, Méritxell Fillols*, Fabian Raymenants*, Timothy Noël* <i>*Van't Hoff Institute for Molecular Sciences (HIMS), University of Amsterdam, Amsterdam, The Netherlands</i>

13:00-14:30 Lunch Break

Moderators: Dimitrios Georgiadis (NKUA) - Alexandros Zografos (AUTH)	
14:30-14:40	Award Ceremony Lifelong Achievements Awards in Organic Chemistry Awardees: Ioannis Gallos, Aristotle University of Thessaloniki Michael Orfanopoulos, University of Crete Dionissios Papaioannou, University of Patras
14:40-15:00	OP50 - The Chemical Space of Multicomponent Reactions: The Tool Towards New Modalities Michael Fragkiadakis, Paraskevi-Kleio Anastasiou, Marios Zingiridis, Ioannis Volyrakis, Constantinos G. Neochoritis <i>Department of Chemistry, University of Crete, Voutes, Heraklion, Greece</i>
15:00-15:20	OP51 - Developing Enabling Technologies for the Future of Chemical Synthesis Stellios Arseniyadis, Queen Mary University of London, Department of Chemistry, London, UK

3rd Day Friday 27th September 2024

"Ioannis Drakopoulos" Amphitheatre

15:20-15:30	OP52 - Graphene Acid: A Potent Carbocatalyst for the Friedel-Crafts Arylation of Aldehydes with Indoles Eirini M. Galathri*, Viětzslav Hrubý****, Demetrios D. Chronopoulos*, Michal Otyepka****, Christoforos G. Kokotos* <i>*Laboratory of Organic Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Panepistimiopolis, Athens, Greece</i> <i>**Regional Centre of Advanced Technologies and Materials, The Czech Advanced Technology and Research Institute (CATRIN), Palacký University Olomouc, Olomouc, Czech Republic</i> <i>****Department of Physical Chemistry, Faculty of Science, Palacký University Olomouc, Olomouc, Czech Republic</i> <i>*****IT4Innovations, VŠB – Technical University of Ostrava, Ostrava-Poruba, Czech Republic</i>
15:30-15:40	OP53 - Photoluminescent Cu(I)-Catalysts in Light-Induced C-H Allylic Oxygenation Michalis G. Kallitsakis*, Dimitra K. Gioftsidou*, Michalis. A. Terzidis**, Panagiotis. A. Angaridis*, Ioannis. N. Lykakis* <i>*Department of Chemistry, Aristotle University of Thessaloniki, University Campus, Thessaloniki, Greece</i> <i>**Department of Nutritional Sciences and Dietetics, International Hellenic University, Sindos Campus, Thessaloniki, Greece</i>
15:40-15:50	OP54 - Generation and Study of a Novel Thymidine DNA Lesion George Atsaves*, Thanasis Gimisis* <i>*Organic Chemistry Laboratory, Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece</i>
15:50-16:00	OP55 - Photochemical Iodine Atom Transfer Radical Addition & Cyclization for the Synthesis of Lactones, Organoboron Derivatives, Cyclopropanes and Cyclopentanes Charikleia S. Batsika**, Maria Rrapi*, Gaetano Geraci**, Philippe Renaud**, Christoforos G. Kokotos* <i>*Laboratory of Organic Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece</i> <i>**Department of Chemistry, Biochemistry and Pharmaceutical Sciences, University of Bern, Bern, Switzerland</i>
16:00-16:30	INVLO8 - Positioning Hydrocarbons for Reactivity Christina M. White, Lycan Professor of Chemistry, Dept. of Chemistry, University of Illinois, Urbana, Illinois, USA

16:30-17:00 Coffee Break


3rd Day Friday 27th September 2024

"Ioannis Drakopoulos" Amphitheatre

Moderators: Olga Mountanea (NKUA) - Panagiota Stini (NKUA)	
17:00-17:10	OP56 - Thiazolyl Ketone GK730 as a Potent Inhibitor of SARS-Cov-2 Main Protease: Key Enzyme Interactions and Structure Modifications Thereof Maria A. Theodoropoulou* , Haifa El Kilani**, Kaixuan Zhang**, Rolf Hilgenfeld**, George Kokotos* <i>*Center of Excellence for Drug Design and Discovery and Department of Chemistry, National and Kapodistrian University of Athens, Panepistimiopolis, Athens, Greece</i> <i>**Institute of Molecular Medicine, University of Lübeck, Lübeck, Germany</i>
17:10-17:20	OP57 - Molecular Glues via Multi-Component Reactions Targeting the 14-3-3α/ERα PPI Markella Konstantinidou¹, Marios Zingiridis², Michalis Fragkiadakis², Johanna M. Virta¹, Marloes Pennings³, Jezrael Lafuente Revalde¹, Emira J. Visser³, Luc Brunsveld³, Christian Ottmann³, Constantinos G. Neochoritis², Michelle R. Arkin¹ <i>¹Department of Pharmaceutical Chemistry and Small Molecule Discovery Center (SMDC), University of California, San Francisco, United States</i> <i>²Department of Chemistry, University of Crete, Voutes, Heraklion, Greece</i> <i>³Laboratory of Chemical Biology, Department of Biomedical Engineering and Institute for Complex Molecular Systems (ICMS), Eindhoven University of Technology, Eindhoven, The Netherlands</i>
17:20-17:30	OP58 - Development of a New Route Suitable for an Industrial Synthesis of Tazobactam Ioanna Zgouleta^a, Theoharis Koftis^b, Gerasimos Rassias^a <i>^aDepartment of Chemistry, University of Patras, Rio University Campus, Patras, Greece</i> <i>^bDEMO SA, Thermi, Greece</i>
17:30-17:40	OP59 - Photochemical Aerobic Oxidation of Boronic Acids Constantinos T. Constantinou*, Petros L. Gkizis*, Christoforos Kokotos* <i>*Laboratory of Organic Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece</i>
17:40-17:50	OP60 - Diverged Synthesis of Imidates and Amides from α-Iminonitriles Andriani G. Chaidali*, Nikoleta-Aikaterini Barmpalou*, Zoi Chrysovalantou Sidiropoulou*, Ioannis N. Lykakis* <i>*Department of Chemistry, Aristotle University of Thessaloniki, University Campus, Thessaloniki, Greece</i>

3rd Day Friday 27th September 2024

"Ioannis Drakopoulos" Amphitheatre

17:50-18:23	Flash Posters Presentations
	Organic Chemistry
17:50-17:53	FP18 - Nitroalkenes as Versatile Building Blocks for the Synthesis of N-Heterocycles Ioannis N. Lykakis , Chemistry Department, Aristotle University of Thessaloniki, University Campus, Thessaloniki, Greece
17:53-17:56	FP19 - Graphene-Based Materials: Sustainable Pathways Towards Catalytic Oxidative Transformations Olga G. Mountanea*, Efthymios T. Poursaitidis*, Demetrios D. Chronopoulos*, Christoforos G. Kokotos* <i>*Laboratory of Organic Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece</i>
17:56-17:59	FP20 - Aerobic Cα-Cβ Cleavage of Allylic Alcohols Facilitated by Iron(III) Catalyst Georgia G. Bagkavou^a, Christos I. Stathakis^a <i>^aDepartment of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece</i>
	Medicinal Chemistry
17:59-18:02	FP21 - Novel β-Lactones and β-Lactams in the Fight Against Tuberculosis Anna-Krinio Papagiorgiou*, Phoebe Ananida-Dasenaki*, Dimitra Bolka*, Stephane Canaan**, Jean-Francois Cavalier**, Victoria Magrioti* <i>*Laboratory of Organic Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Greece</i> <i>**Aix-Marseille Université, CNRS, LISM, Marseille, France</i>
18:02-18:05	FP22 - Synthesis of Phosphinic Pseudopeptide Analogues of Angii and Apelin 13 for Crystallographic Studies of ACE2 Nikolaos Alevizopoulos*, Myrto Athina Balachouti*, Andreas Mores*, Petros Giastas****, Marios Zouridakis***, Dimitris Georgiadis* <i>*Laboratory of Organic Chemistry, Faculty of Chemistry, National and Kapodistrian University of Athens, Panepistimioupolis, Athens, Greece</i> <i>**Genetics Laboratory, Department of Biotechnology, School of Applied Biology and Biotechnology, Agricultural University of Athens, Athens, Greece</i> <i>***Research Group, Department of Neurobiology, Hellenic Pasteur Institute, Athens, Greece</i>


3rd Day Friday 27th September 2024

"Ioannis Drakopoulos" Amphitheatre

	Organic Chemistry
18:05-18:08	FP23 - Silver-Catalyzed Synthesis of N-Substituted-4-Pyridones from Skipped Diynones Elisavet-Maria Zantioti-Chatzouda, Manolis Stratakis <i>Department of Chemistry, University of Crete, Voutes, Heraklion, Greece</i>
18:08-18:11	FP24 - One-Pot Access to Fused Derivatives of Pyrimidines and Pyrimidones via C1 Chemistry Marios Zingiridis*, Danae Papachristodoulou*, Despoina Menegaki*, Constantinos G. Neochoritis* <i>*University of Crete, Department of Chemistry, Voutes, Heraklion, Greece</i>
18:11-18:14	FP25 - Catalyst-free Photochemical N-O Bond Cleavage of O-2-Nitrobenzyl Protected Hydroxamic Acids Anna-Dimitra D. Gerogiannopoulou*, Olga G. Mountanea*, Alexandros E. Routsis*, Demeter Tzeli**, Christoforos G. Kokotos*, George Kokotos* <i>*Laboratory of Organic Chemistry, Department of Chemistry, and Center of Excellence for Drug Design and Discovery, National and Kapodistrian University of Athens, Panepistimiopolis, Athens, Greece</i> <i>**Laboratory of Physical Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Panepistimiopolis, Athens, Greece, Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation, Athens, Greece</i>
18:14-18:17	FP26 - Total Synthesis of Benzodifuran Derivatives Demetra Bouki, Vasileios Athanasoulas, Eleutheria Eleutheriadou, Konstantina-Eleni Skouri, Anastasios Haritou, Dimitrios Tsagkas, Lazaros Hadjiarapoglou <i>Organic Chemistry, Department of Chemistry, University of Ioannina, Ioannina, Greece</i>
18:17-18:20	FP27 - Facile Synthesis of Polysubstituted Pyrrolylethanol from Nitrostyrenes Alexios D. Kouvelas*, Ioannis N. Lykakis* <i>*Department of Chemistry, Aristotle University of Thessaloniki, University Campus, Thessaloniki, Greece</i>
18:20-18:23	FP28 - Toussaintines: Synthetic Strategies Toward Nature's N-Cinnamoylindolidinoids Dimitra Malliotaki, Maria Ioanna Karapanou, Manolis Stratakis <i>Department of Chemistry, University of Crete, Voutes, Heraklion, Greece</i>

18:30-20:00 Poster Session B

3rd Day Friday 27th September 2024

"Alkis Argyriadis" Amphitheatre

Moderators: Eleni Efthimiadou (NKUA) - Patrina Paraskevopoulou (NKUA)	
09:00-09:20	OP61 - 3D-Metal Complexes Exhibiting Slow Magnetization Relaxation and Electrocatalytic Reactivity Panayotis Kyritsis, Inorganic Chemistry Laboratory, Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece
09:20-09:40	OP62 - Molecular Engineering in the Development of Metallodrugs in Diabetes Mellitus II Athanasios Salifoglou, Laboratory of Inorganic Chemistry and Advanced Materials, School of Chemical Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece
09:40-10:00	OP63 - Chiral Heterometallic Cu/Ln Schiff Base Complexes Cathrene Raptopoulou^a, Despina Dermitzaki^a, Niki Mavragani^b, Angeliki Panagiotopoulou^c, Michail Pissas^a, Vassilis Psycharis^a, Muralee Murugesu^b <i>^aInstitute of Nanoscience and Nanotechnology, NCSR "Demokritos", Ag. Paraskevi, Greece</i> <i>^bDepartment of Chemistry and Biomolecular Sciences, University of Ottawa, Ottawa, Ontario, Canada</i> <i>^cInstitute of Biosciences and Applications, NCSR "Demokritos", Aghia Paraskevi, Greece</i>
10:00-10:20	OP64 - Semiconducting Clathrates for Thermoelectric Applications Nikolaos Moutzouris, Nikolaos Kelaidis, Emmanuel Klontzas, Andreas Kaltzoglou <i>Institute of Theoretical & Physical Chemistry, National Hellenic Research Foundation, Athens, Greece</i>
10:20-10:40	OP65 - Substituted Pyridyl-Quinoline-Based Ru(II) Complexes as Efficient Catalysts for the Transfer Hydrogenation of Aromatic Ketones Nikolaos Zacharopoulos^{1,2}, Athanassios I. Philippopoulos¹ <i>¹Laboratory of Inorganic Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece</i> <i>²Department of Industrial Design and Production Engineering, School of Engineering, University of West Attica, Aigaleo, Greece</i>
10:40-11:00	OP66 - Development of Dye-Sensitized Photocatalytic Systems for Hydrogen Evolution Georgios Charalambidis*, Athanassios G. Coutsolelos**, Farbrice Odobel*** <i>*Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation, Athens, Greece</i> <i>**Laboratory of Bioinorganic Chemistry, Department of Chemistry, University of Crete, Voutes, Greece</i> <i>***Nantes Université, CNRS, CEISAM, Nantes, France</i>

11:00-11:30 Coffee Break


3rd Day Friday 27th September 2024

"Alkis Argyriadis" Amphitheatre

Moderators: Dimitrios Bikiaris (AUTH) - Dimitrios Giannakoudakis (AUTH)	
11:30-12:00	INVLO9 - Synthesis and Characterization of Well-Defined Polymers Apostolos Avgeropoulos , Department of Materials Science Engineering, University of Ioannina, University Campus - Dourouti, Ioannina, Greece
12:00-12:20	OP67 - Synthesis and Characterization of Polymer Brushes by Ring Opening Metathesis Polymerization in Combination with other Polymerization Techniques Georgios Theodosopoulos , Christiana Nikovia , Christos Zisis , Alexios Markou , Ioannis Choinopoulos , Marinos Pitsikalis Industrial Chemistry Laboratory, Department of Chemistry, University of Athens, Panepistimiopolis Zografou, Athens, Greece
12:20-12:30	OP68 - Morphological, Mechanical and Contact Angle Properties of Poly(Lactic Acid)/Bacterial Cellulose Fibrils (CNF) Composites Nikolaos Bikiaris* , Marra Giacomo** , Valera Miguel Ángel** , Charilaos Xiros*** , Rafael Sanchez**** , Zoe Terzopoulou* *Laboratory of Polymer and Colors Chemistry and Technology, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece **AIMPLAS, Asociación de Investigación de Materiales Plásticos Y Conexas, Valencia, Spain ***RISE Processum AB, Örnköldsvik, Sweden **** Instituto Tecnológico del Embalaje, Transporte y Logística, ITENE, Unidad Asociada al CSIC, Paterna, Valencia, Spain
12:30-12:40	OP69 - Chemical Upcycling of Plastic Wastes via Catalytic Fast Pyrolysis Towards Fuel Production Petros Soldatos* , Antigoni Margellou* , Stylianios Torofias* , Konstantinos Triantafyllidis* *Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece
12:40-12:50	OP70 - Statistical Copolymers of N-VINYL Pyrrolidone and Vinyl Ethers as Scaffolds for the Synthesis of Complex Macromolecular Architectures Nikolaos V. Plachouras , Olga Kokkorogianni , Stylianios Soranidis , Enea Abedin , Marinos Pitsikalis Industrial Chemistry Laboratory, Department of Chemistry, National and Kapodistrian University of Athens, Panepistimiopolis Zografou, Athens, Greece
12:50-13:00	OP71 - Investigation of Novel Biobased Block Copolyesters Based on PLA and Poly(Ethylene Azelate) (PEAz), coupled with Pyrolysis-Gas Chromatography/Mass Spectrometry (Py-GC/MS) Rafail O. Ioannidis* , Nikolaos Bikiaris* , Nina Maria Ainali* , Zoe Terzopoulou* , Nikolaos Nikolaidis* *Laboratory of Polymer and Colors, Chemistry and Technology, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece

3rd Day Friday 27th September 2024

"Alkis Argyriadis" Amphitheatre

13:00-14:30 Lunch Break	
Moderators: Marilena Dasenaki (NKUA) - Athina Markou (NKUA)	
14:30-15:00	SL05 - Advantages of SFC-MS Over LC-MS in Food Safety Analysis Gesa J. Schad, Dr. , Shimadzu Europa GmbH, Duisburg, Germany 
15:00-15:10	Award Ceremony Lifelong Achievements Awards in Food Chemistry Awardee: Maria Tsimidou , Aristotle University of Thessaloniki
15:10-15:40	INVLO10 - Advancements in Wine Metabolomics Research Panagiotis Arapitsas , Research and Innovation Centre, Fondazione Edmund Mach, San Michele all'Adige, Italy, Department of Wine, Vine and Beverage Sciences, School of Food Science, University of West Attica, Athens, Greece
15:40-15:50	OP72 - Secondary Metabolites from Hypericum Species of Greek Origin Related to their Antioxidant and Antimicrobial Activity Eleni Kakouri* , Despina Charalambous** , Dimitra Daferera* , Charalabos Kanakis* , Panayiotis Trigas*** , Petros A. Tarantilis* *Laboratory of Chemistry, Department of Food Science and Human Nutrition, School of Food and Nutritional Sciences, Agricultural University of Athens, Athens, Greece **Department of Pharmacy, School of Health Sciences, Frederick University, Nicosia, Cyprus ***Laboratory of Systematic Botany, Department of Crop Science, School of Plant Sciences, Agricultural University of Athens, Athens, Greece
15:50-16:00	OP73 - Evaluation of Homovanillic Acid Production via Biofermentation Process Using Indigenous Wine Yeasts Emmanouela Dermitzaki*** , Polytimi Papageorgiou* , Haido Bardouki* , Manolis Vamvakias* , Vasileios Dourtoglou*** , Maria Dimopoulou** *VIORYL Chemical and Agricultural Industry, Research S.A, Afidnes, Greece **Department of Wine, Vine and Beverage Sciences, School of Food Science, University of West Attica, Egaleo, Greece ***Laboratory of Systematic Botany, Department of Crop Science, School of Plant Sciences, Agricultural University of Athens, Athens, Greece


3rd Day Friday 27th September 2024

"Alkis Argyriadis" Amphitheatre

16:00-16:10	OP74 - Assessment of Meat Authenticity Using Attenuated Total Reflection-Fourier Transform Infrared Spectroscopy (ATR-FTIR) Combined with Multivariate Classification Techniques Lamprini Dimitriou* , Michalis Koureas**, Sofia Kapageridou***, Christos S. Pappas ****, Athanasios Manouras*****, Eleni Malissiova* <i>*Food of Animal Origin Laboratory, Animal Science Department, University of Thessaly, Gaiopolis Campus, Larisa, Greece</i> <i>**Laboratory of Hygiene and Epidemiology, Faculty of Medicine, University of Thessaly, Larisa, Greece</i> <i>***Postgraduate Study Program Biotechnology-Quality Assessment in Nutrition and the Environment, Department of Biochemistry and Biotechnology, University of Thessaly, Biopolis, Larisa, Greece</i> <i>****Laboratory of Chemistry, Department of Food Science and Human Nutrition, Agricultural University of Athens, Athens, Greece</i> <i>*****Laboratory of Food Chemistry, Biochemistry and Technology, Nutrition and Dietetics Department, University of Thessaly, Trikala, Greece</i>
16:10-16:20	OP75 - The Short-Term Impact of Carob-Beverage on Glycaemia in Non-Diabetic Subjects Stamatia Angeliki Kleftaki* , Charalampia Amerikanou*, Evdokia Valsamidou*, Konstantinos Koutoulougenis*, Chara Tzavara*, Andriana C. Kaliora* <i>*Department of Nutrition and Dietetics, School of Health Science and Education, Harokopio University, Athens, Greece</i>
16:20-16:30	OP76 - Development of Plant Protein-Enriched Cereal-Based Snack and Effects on Body Weight and Postprandial Metabolic Responses of Women with Over-Weight/Obesity Maria-Christina Kanata* , Irene Nikolidaki*, Irene Pateras**, Ioanna Anastasiou***, Chrysi Koliaki***, Alexander Kokkinos***, Vaios Karathanos*, Amalia Yanni* <i>*Laboratory of Chemistry-Biochemistry-Physical Chemistry of Foods, Department of Nutrition and Dietetics, Harokopio University, Athens, Greece</i> <i>**ELBISCO S.A., Industrial and Commercial Food Company, Pikermi, Greece</i> <i>***First Department of Propaedeutic Internal Medicine, Medical School, National and Kapodistrian University of Athens, Laiko General Hospital, Athens, Greece</i>

16:30-17:00 Coffee Break

3rd Day Friday 27th September 2024

"Alkis Argyriadis" Amphitheatre

Moderators: Athanasios Philippopoulos (NKUA) - Athanasios Tsekouras (NKUA)	
17:00-17:20	SL06 - Prospects and Opportunities for Professional Development of Chemical Scientists in the Hellenic Pharmaceutical Industry Faye Kosmopoulou , General Manager Panhellenic Union of Pharmaceutical Industry Integrated Research, Development & Production of Generic APIs by DEMO S.A. in Greece Eleni Christodoulou , Head of Regulatory Affairs API, DEMO 
17:20-17:30	OP77 - Antimicrobial Properties of Plants of Greek Flora Aliki Tsakni* , Archontoula Chatzilazarou**, Panagiotis Halvatsiotis***, Dimitra Houhoula* <i>*Department of Food Science and Technology, Faculty of Food Sciences, University of West Attica, Egaleo, Greece</i> <i>**Department of Wine, Vine and Beverages Sciences, University of West Attica, Egaleo, Greece</i> <i>***2nd Department of Propaedeutic Internal Medicine, National and Kapodistrian University of Athens, University General Hospital "Attikon", Athens, Greece</i>
17:30-17:40	OP78 - Determination of Perfluorinated Compounds in Sewage Sludge and Hydrochar Using UHPLC LTQ/Orbitrap Ms and Evaluation of their Removal During Hydrothermal Carbonization Treatment Kleopatra Miserli* , Vasiliki Boti*. **, Ioannis Konstantinou*. ** <i>*Department of Chemistry, University of Ioannina, Ioannina, Greece</i> <i>**Institute of Environment and Sustainable Development, University Research and Innovation Center, University of Ioannina, Ioannina, Greece</i>
17:40-18:19	Flash Posters Presentations
	Inorganic and Bioinorganic Chemistry
17:40-17:43	FP29 - Bimetallic Hybrid Iron/Europium Nanoparticles as Bioimaging Probes; Structural, Morphological and Biological Evaluation Evangelia Tsitsou* , Danai Prokopiou*, Maria Theodosiou*, Athina Papadopoulou*, Elias Sakellis**, Nikos Boukos**, Eleni Efthimiadou* <i>*Inorganic Chemistry Laboratory, Department of Chemistry, National and Kapodistrian University of Athens, Panepistimiopolis, Zografou, Greece</i> <i>**Institute of Nanoscience and Nanotechnology, NCSR "Demokritos", Aghia Paraskevi Attikis, Greece</i>
17:43-17:46	FP30 - A Hybrid Binary Metal-Organic Form of Zinc Exhibits Potency Against Neurodegeneration Georgios Lazopoulos* , Sevasti Matsia*, Athanasios Salifoglou* <i>*Laboratory of Inorganic Chemistry and Advanced Materials, School of Chemical Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece</i>


3rd Day Friday 27th September 2024

"Alkis Argyriadis" Amphitheatre

17:46-17:49	FP31 - Synthesis and Studies of Green Carbon Dots from Oranges as Sensors for Fast Monitoring the Polarity of Solvents Evangelia Kyriazi¹, Charikleia Malerou¹, Vasiliki Rammou¹, Artemis Sparaggi¹, Kalliopi Ladomenou¹ ¹ Hephaestus Laboratory, School of Chemistry, Faculty of Sciences, Democritus University of Thrace, Kavala, Greece
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	Food Science and Human Nutrition
17:49-17:52	FP32 - Comparative Evaluation of Hydrolysis Methods for Extracting Bound Phenolics from Corinthian Currants (<i>Vitis Vinifera</i> L.) Velisaria-Eleni Gerogianni¹, Eirini A. Panagopoulou¹, Paraskevi B. Vasilakopoulou¹, Vaios T. Karathanos^{1,2}, Antonia Chiou¹ ¹ Department of Science of Dietetics-Nutrition, Harokopio University, Kallithea, Athens, Greece ² Agricultural Cooperatives' Union of Aeghion, Aeghion, Greece
17:52-17:55	FP33 - Inter- and Intra-varietal Genetic Variations of the Polyphenolic Profile of Four Greek <i>Vitis Vinifera</i> L. Grapes Cultivars Panagiotis Georgios Panagiotidis^a, Artemis Mastrotheodoraki^b, Marilena Dasenaki^b, Konstantinos Bakasietas^c, Sofoklis Petropoulos^c, Panagiotis Arapitsas^{a,d} ^a Department of Wine, Vine and Beverage Sciences, School of Food Science, University of West Attica, Athens, Greece ^b Laboratory of Food Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Panepistimiopolis Zografou, Athens, Greece ^c Hellenifera, VNB Bakasietas Vine Nursery, Leontio, Nemea, Corinth, Greece ^d Unit of Metabolomics, Research and Innovation Centre, Fondazione Edmund Mach, San Michele all'Adige, Italy
17:55-17:58	FP34 - Mycotoxin Analysis and Occurrence in Oat, Almond, Soya, Coconut and Hazel Beverages in Greek Market using UHPLC-ESI-MS/MS Artemis Mastrotheodoraki[*], Christos Giannopoulos[*], Vasileios Valdramidis[*], Charalampos Proestos[*], Marilena Dasenaki[*] [*] Laboratory of Food Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece
17:58-18:01	FP35 - Synthesis and Physicochemical Characterization of O/W Nanoemulsions Formulated with Various Oils and Investigation of their Stability as Carriers for Antimicrobial Agents Dimitra Giannopoulou, Anastasia Lambropoulou, Myrto Maragou, Athanasia Koliadima Department of Chemistry, University of Patras, Patras, Greece

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"Alkis Argyriadis" Amphitheatre

	Polymer Chemistry and Technology
18:01-18:04	FP36 - Polyetherimide/Pebax Composite Membranes for CO₂ Separation: Optimization of the Substrate Formation Sotiria Rekleiti^{1,2}, George V. Theodorakopoulos¹, Dionysios S. Karousos¹, Evangelos P. Favvas¹, Georgios N. Karanikolos² ¹ Institute of Nanoscience and Nanotechnology, NCSR "Demokritos", Athens, Greece ² Department of Chemical Engineering, University of Patras, Patras, Greece

	Physical and Theoretical Chemistry
18:04-18:07	FP37 - Electronic Structure and Modeling Properties of Perovskite A₂ZrX₆ Materials Where A= (CH₃)₃S, CH₃NH₃⁺, CH(NH₂)₂⁺ and X= Cl, Br, I Christina Kolokytha^{1,2*}, Nektarios N. Lathiotakis², Andreas Kaltzoglou², Demeter Tzeli^{1,2} ¹ Laboratory of Physical Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Zografou, Greece ² Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation, Athens, Greece
18:07-18:10	FP38 - Multinucleon Transfer Reactions Leading to the Production of Neutron-Rich Isotopes for the Astrophysical R-Process (Near And Above Iron) Olga Fasoula[*], Stergios Koulouris[*], George Souliotis[*], Chrsi Giannitsa[*], Konstantinos Gkatzogias[*], Eirini Kontogianni[*], Eleftheria Travlou[*] [*] Laboratory of Physical Chemistry, Department of Chemistry, National and Kapodistrian University of Athens

	Environmental Chemistry and Technology
18:10-18:13	FP39 - Green Hydrogen Production from Surplus Renewable Energy in Greece through Seawater Electrolysis Georgios Varras, Michalis Chalaris Hephaestus Laboratory, School of Chemistry, Faculty of Sciences, Democritus University of Thrace, Kavala, Greece
18:13-18:16	FP40 - Photochemical Advanced Oxidation Processes for the Enhanced Degradation of Persistent Organic Micropollutants Alexandra Spyrou[*], Alexandra A. Ioannidi^{**}, Zacharias Frontistis^{***}, Dionissios Mantzavinos^{**}, Maria Antonopoulou[*] [*] Department of Sustainable Agriculture, University of Patras, Agrinio, Greece ^{**} Department of Chemical Engineering, University of Patras, Patras, Greece ^{***} Department of Chemical Engineering, University of Western Macedonia, Kozani, Greece

3rd Day / Friday 27th September 2024

"Alkis Argyriadis" Amphitheatre

	Food Science and Human Nutrition
18:16-18:19	FP41 - Chemical Composition of the Essential Oils of <i>Sideritis</i> Species (Mountain Tea) Cultivated in Greece Using GC-MS Analysis Eleftheria H. Kaparakou* , Dimitra Daferera* , Maroula G. Kokotou* , Petros A. Tarantilis* <i>*Laboratory of Chemistry, Department of Food Science and Human Nutrition, Agricultural University of Athens, Athens, Greece</i>

18:30-20:00 Poster Session B

Posters


Poster Session B Friday 27th September 2024
"Ioannis Drakopoulos" Foyer
PP72
Determination of Antibiotics in Fish Tissue by Quechers and UHPLC/ORBITRAP MS Analysis

Kleopatra Miserli*, **Vasiliki Boti****, **Dimitra Hela*****, **Triantafyllos Albanis****, **Ioannis Konstantinou****

*Department of Chemistry, University of Ioannina, Ioannina, Greece

**Institute of Environment and Sustainable Development, University Research and Innovation Center, University of Ioannina, Ioannina, Greece

PP73
Facile Single-Crystal-To-Single-Crystal Topotactic Metal Cation Exchange in Ultraporous MOFs

Maria Vassaki*, **Konstantinos Froudas***, **Konstantinos Tsangarakis***, **Xu Chen****, **William Shepard*****, **David Fairen-Jimenez****, **Christos Tampaxis******, **Georgia Charalambopoulou******, **Theodore A. Steriotis******, **Pantelis N. Trikalitis***

*Department of Chemistry, University of Crete, Heraklion, Greece

**Department of Chemical Engineering & Biotechnology, University of Cambridge, Cambridge, UK

***Synchrotron SOLEIL-UR1, L'Orme des Merisiers, Saint-Aubin, France

****National Center for Scientific Research "Demokritos", Athens, Greece

PP74
Steam Explosion of Olive Tree Prunings Towards a Facile Biopolymers and Bioethanol Production Approach

Eleni Psochia*, **Rodrigo Leonardi****, **Sofia Racca****, **Raul N. Comelli****, **Konstantinos S. Triantafyllidis***

*Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece

**Grupo de Procesos Biológicos en Ingeniería Ambiental (GPBIA), Facultad de Ingeniería y Ciencias Hídricas (FICH), Universidad Nacional del Litoral (UNL), Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Santa Fe, Argentina

Poster Session B Friday 27th September 2024
"Ioannis Drakopoulos" Foyer
PP75
Method Development for the Determination of Aromatic Amino Acids (AAs) and their Gut Microbiota-Host Cometabolites in Human Urine by LC-MS/MS

Domniki Gallou**, **Olga Begou****, **Artemis Lioupi***, **Helen Gika****, **Vasiliki Sarli******, **Ian Wilson*******, **Georgios Theodoridis****

*Laboratory of Analytical Chemistry, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece

**Biomic AUTH, Center for Interdisciplinary Research and Innovation (CIRI-AUTH), Balkan Center B1.4, Thessaloniki, Greece

***ThetaBiomarkers, Balkan Center B1.4, Thessaloniki, Greece

****Department of Medicine, Aristotle University of Thessaloniki, Thessaloniki, Greece

*****Laboratory of Organic Chemistry, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece

*****Imperial College London, Faculty of Medicine, Department of Metabolism, Digestion and Reproduction, London, UK

PP76
Synthesis of Novel Heterocyclic Anti-Inflammatory Derivatives

Ilias Papanotas*, **Eleni Pontiki***

*Department of Pharmaceutical Chemistry, School of Pharmacy, Faculty of Health Sciences, Aristotle University of Thessaloniki, Thessaloniki, Greece

PP77
An Alginate-Supported Nades System for Sustainable Catalysis

Stavros Neofotistos*, **Vasilis Tsitsimpis***, **Andromachi Tzani***, **Anastasia Detsi***

*School of Chemical Engineering, National Technical University of Athens, Athens, Greece

PP78
Hybrid Chalcones with Indole Scaffolds: Synthesis and Biological Activity Insights

Maria Kouki*, **Stavros Neofotistos***, **Anastasia Detsi***

*School of Chemical Engineering, National Technical University of Athens, Athens, Greece

PP79
Photoacids: A Computational Investigation of Schreiner's Thiourea and its Derivatives

Alexandros E. Routsis*, **Stamatis Serviou***, **Demeter Tzeli****, **Christoforos G. Kokotos***

*Laboratory of Organic Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece

**Laboratory of Physical Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece


Poster Session B Friday 27th September 2024
"Ioannis Drakopoulos" Foyer
PP80
Quantitative Determination of the Components of Sacubitril/Valsartan Complex in Pharmaceutical Formulations
Anastasia-Ioanna Anestidou^{*,}, Christos Kontoyannis^{*,**}, Malvina Orkoulou^{*}**
^{*}Department of Pharmacy, University of Patras, Patras, Greece

^{**} Foundation for Research and Technology Hellas / Institute of Chemical Engineering Sciences (FORTH/ICE-HT), Patras, Greece

PP81
Determination of Short Chain Fatty Acids (SCFAs) in Human Fecal Samples by GC-MS
Vasiliki Gkanali^{*,}, Kwnstantina Farantatou^{***}, Christina Virgiliou^{*,***}, Olga Begou^{*,****}, Helen Gika^{*,****}, Georgios Theodoridis^{*,**}**
^{*}Laboratory of Analytical Chemistry, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece

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PP82
Bis-Indolyl Methanes (BIMs): A Friedel-Crafts Type Arylation of Aldehydes with Indoles
Eirini M. Galathri^{*}, Christoforos G. Kokotos^{*}
^{*}Laboratory of Organic Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece

PP83
Metabolic Profiling of Mediterranean Fish Species: A ¹H NMR-Based Study
Domniki Gallou^{*}, Olga Deda^{*}, Benaki Dimitra^{}, Emmanouil Mikros^{**}, Georgios Theodoridis^{*,***}, Helen Gika^{*,****}, Chrysa Gubili^{*****}**
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Poster Session B Friday 27th September 2024
"Ioannis Drakopoulos" Foyer
PP84
Laccase-Catalyzed Synthesis of Antioxidant Phenolic Polymers Derived from Wine Lees
Panagiotis E. Athanasiou^{*}, Christina I. Gkountela^{}, Michaela Patila^{*}, Renia Fotiadou^{*}, Alexandra V. Chatzikonstantinou^{*}, Angeliki C. Polydera^{*}, Stamatina N. Vouyiouka^{**}, Haralambos Stamatis^{*}**
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^{**} Laboratory of Polymer Technology, School of Chemical Engineering, National Technical University of Athens, Athens, Greece

PP85
Development of Analytical Method for the Determination of Elements in Blood Samples of Patients with Psychiatric Disorders
Michail Lykouras^{*}, Dimitra Kanellopoulou^{*}, Kariofyllis Karamperis^{}, George Patrinos^{**}, George Lagoumintzis^{***}, Malvina Orkoulou^{****}**
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^{**} University of Patras, School of Health Sciences, Department of Pharmacy, Laboratory of Pharmacogenomics & Individualized Therapy, Patras, Greece

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PP86
Experimental Polyimide Membrane Evaluation for Experimental CO₂/CH₄ and CO₂/N₂ Separation of Flue Gas and Biogas Mixtures for Utilization in Methanation
Chrysovalantou Koutsiantzi^{*}, Alexandros Chatzis^{}, Elissavet Lampridou^{**}, Effrosyni Peleka^{**}, Anastasios Zouboulis^{**}, Eustathios Kikkinides^{*}**
^{*}Dept. of Chemical Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece

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PP87
Examination of the Biocompatibility of Stainless Steel 316L Against the Neuroblastoma SH-SY5Y Cells
Eleni Zingkou^{*}, Asimina Kolianou^{*}, Georgios Pampalakis^{*}, Georgia Sotiropoulou^{*}
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Poster Session B Friday 27th September 2024
"Ioannis Drakopoulos" Foyer
PP88
Diels – Alder Reactions of Masked Ortho Benzoquinones

Christos Anagnostopoulos*, Christos Kalogiros*, Evaggelia Toufa*, Lazaros Hadjirapoglou*

*University of Ioannina, Department of Chemistry, Ioannina, Greece

PP89
Cornus Mas L. Aqueous Extracts Provide Neuroprotection as a Nutraceutical Supplement

Georgios Lazopoulos*, Sevasti Matsia*, Anastasia Loukri**, Anastasia Kyriakoudi**, Ioannis Mourtzinis**, Athanasios Salifoglou*

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Aristotle University of Thessaloniki, Thessaloniki, Greece

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PP90
Synthesis of Nanocomposite Hydrogels for Application in Photodynamic Therapy (PDT)

Flora Kalogeropoulou*, Ioanna Pitterou*, Kirki Spyropoulou*, Eleni Alexandratou**, Anastasia Detsi*

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**School of Electrical Engineering, National Technical University of Athens, Zografou, Greece

PP91
In Vitro, Ex Vivo and In Silico Studies to Assess Tomato Extracts Antioxidant Activities

Georgia Ladika¹, Paris Christodoulou¹, Konstantinos Tsiantas¹, Sotirios Fortis²,

Dionisis Cavouras³, Anastasios G. Kriebardis², Vassilia J. Sinanoglou¹, Eftichia Kritsi^{1*}

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PP92
Impact of Packaging on Storage Quality Parameters of Greenhouse-Cultivated Cucumbers: A Comparative Analytical Study

Georgia Ladika¹, Paris Christodoulou^{1*}, Konstantinos Tsiantas¹, Eftichia Kritsi¹, Thalia Tsiaka¹,

Dionisis Cavouras², Panagiotis Zoumpoulakis¹, Vassilia J. Sinanoglou¹

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Poster Session B Friday 27th September 2024
"Ioannis Drakopoulos" Foyer
PP93
On the Evaluation of Fecal Short Chain Fatty Acid Profile of Postmenopausal Osteopenic Women Receiving a Novel Supplement: Insights from Osteome Clinical Study

Konstantinos Tsiantas^{1*}, Georgia Ladika¹, Paris Christodoulou¹, Thalia Tsiaka¹, Dionisis Cavouras², Panagiotis Zoumpoulakis¹, Vassilia J. Sinanoglou¹

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PP94
Functionalization of Water Stable MOFs for Water Remediation

Giannis S. Papaefstathiou, Alexios Plessas, Panagiotis Oikonomopoulos, Pantelis Kotidis, Vasileios Tsonis

Laboratory of Inorganic Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece

PP95
Synthesis of Phosphinic Pseudopeptidic Inhibitors of M1 Aminopeptidases Using a Late-Stage Diversification Strategy

Konstantinos Patiniotis, Dimitris Georgiadis

Laboratory of Organic Chemistry, Faculty of Chemistry, National and Kapodistrian University of Athens, Athens, Greece

PP96
Parametric Study of Different Plasma Activated Waters Used for Methylene Blue Degradation via Atmospheric Pressure Pin-To-Liquid Cold Plasma Technology

Gian Armper Bazelli², Ioannis Katsogiannis², Panagiotis Dimitrakellis¹, Konstantinos Kourtzanidis¹, Konstantinos V. Plakas¹

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PP97
Design, Synthesis and Biological Evaluation of Cinnamic Acid N-Acylhydrazone Derivatives as Antioxidant and Anti-inflammatory Agents

Aliki Drakontaeidi^a, Eleni Pontiki^a

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Poster Session B Friday 27th September 2024
"Ioannis Drakopoulos" Foyer
PP98
Laccase Mediated Modification of Chitosan for the Preparation of Hydrogels and Nanocomposites in Deep Eutectic Solvent-Based Media

Myrto G. Bellou*, Anastasia Skonta*, Marina Velogianni*, Alexandra V. Chatzikonstantinou*, Haralambos Stamatis*

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PP99
Deep Eutectic Solvent-Assisted Extraction of Mono- and Poly-Unsaturated Fatty Acids from Microalgae for the Production of Structured Phenolic Lipids

Stamatia Spyrou*, Renia Fotiadou*, Georgios Sfoungaris*, Myrto G. Bellou*, Haralambos Stamatis*

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PP100
Unusual Oxidation States of Vanadium In Physiology and Disease

Anastasios Papadopoulos*, Sevasti Matsia*, Antonios Hatzidimitriou**, Athanasios Salifoglou*

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PP101
Enhanced Dissolution of Esomeprazole Magnesium Dihydrate by Molecular Interaction with Hypromellose in Solid Dispersion

Stefani Fertaki**, Malvina Orkoulou**, Christos Kontoyannis**

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**ICE/HT-FORTH

Poster Session B Friday 27th September 2024
"Ioannis Drakopoulos" Foyer
PP102
Biomimetic Synthesis of Abyssomicins: Overcoming Challenges and Unlocking Potential

Aleksander Canko***, Angeliki Sofia Foscolos*, Angelos D. Peroulis*, Georgia D. Athanassopoulou*, Vassilis Psycharis*, Catherine P. Raptopoulou*, Vasileios Mouchtouris**, Elias A. Couladouros**, Veroniki P. Vidali*

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PP103
Synthesis of Hybrid Molecules with Potential Anti-Inflammatory and Antioxidant Activity

Eleftherios Charissopoulos*, Antonios Gavalas*, Eleni Pontiki*

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PP104
The C825T GNB3 Polymorphism and 20-Year Diabetes Incidence: The Attica Study (2002–2022)

Sofia-Panagiota Giannakopoulou*, Smaragdi Antonopoulou*, Christina Chrysohoou**, Fotios Barkas***, Costas Tsioufis**, Christos Pitsavos**, Evangelos Liberopoulos****, Petros P. Sfikakis****, Demosthenes Panagiotakos*

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PP105
Synthesis and Study of Analogs of the Potent Antitumor Agent AOH1996

Eugenia Papadopoulou*, Maria A. Theodoropoulou*, Christiana Mantzourani*, Olga G. Mountanea*, Dimitrios Gkikas**, Panagiotis K. Politis**, George Kokotos*

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Poster Session B Friday 27th September 2024
"Ioannis Drakopoulos" Foyer
PP106

Development of an Aziridine-Based Late-Stage Diversification Approach for the P₁ Position of Phosphinic Peptides

Angelos Lelis, Dimitris Georgiadis

Laboratory of Organic Chemistry, Faculty of Chemistry, National and Kapodistrian University of Athens, Panepistimioupolis, Athens, Greece

PP107

Synthesis of a Cell Permeable Probe for Endoplasmatic Reticulum Aminopeptidases

Myrto Athina Balachouti, Sandra Rizo Llamas, Angelos Lelis, Dimitris Gorgiadis

Laboratory of Organic Chemistry, Faculty of Chemistry, National and Kapodistrian University of Athens, Panepistimioupolis, Athens, Greece

PP108

A Simple and Robust LC-ESI Single Quadrupole MS-Based Method to Analyze Polyphenols in Plant Extracts

Maria Trapali

Laboratory of Chemistry, Biochemistry and Cosmetic Science, Department of Biomedical Science, University of West Attica, Attiki, Greece

Poster Session B Friday 27th September 2024
"Alkis Argyriadis" Foyer
PP109

Volatile Profiles of Debina, Robola and Malagouzia White Wines Using GCxGC-TOF MS Coupled with SPME

Stavroula Balaktsi, Ioannis G. Roussis

Laboratory of Food Chemistry, Department of Chemistry, University of Ioannina, Ioannina, Greece

PP110

Architectural Trends in Ternary Cadmium–Organic Materials with Varying Carbon Chain Aliphatic Dicarboxylic Acids

Athina Trompouki*, Sevasti Matsia*, Antonios Hatzidimitriou, Athanasios Salifoglou***

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PP111

Investigation of Pyrimethanil Photolytic Degradation in Aqueous Environmental Systems

Dimitrios Tsimploulis*, Christina Efthymiou*, Vasiliki Boti*, **, Triantafyllos Albanis*,**

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PP112

Suspect Screening of Mycotoxins in Animal Feeds through HRMS

Dafni Dematati*, Dimitrios Gkountouras*, Vasiliki Boti*, **, Triantafyllos Albanis*, **

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PP113

Enhanced Photocatalytic Removal of Furazolidone Using G-C₃N₄ in the Presence of Persulfates Under Lab and Pilot Scale Conditions

Christina Efthymiou*, Christos Lykos*, Vasiliki Boti*, Ioannis Konstantinou***, Triantafyllos Albanis*****

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Poster Session B Friday 27th September 2024
"Alkis Argyriadis" Foyer
PP114
Contribution of Secondary Formed Organosulfates to the Oxidative Potential of Air Particulate Matter

Maria Saraga, Sevasti-Panagiota Kotsaki, Konstantinos Koukoulakis, Evangelos Bakeas
Laboratory of Environmental Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece

PP115
Non-Targeted LC-MS-Based Identification of Lipid Components in Plasma of Volunteers with Metabolic Syndromes after the Intake of a Functional Mushroom Snack-Analysis

Aikaterini Vlessidi*, Konstantinos-Andrias Stamatopoulos*, Paris Christodoulou*, Stamatiia-Angeliki Kleftaki, Charalampia Amerikanou**, Thalia Tsiaka*, Eftichia Kritsi*, Andriana C. Kaliora **, Panagiotis Zoumpoulakis***

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** Department of Nutrition and Dietetics, School of Health Science and Education, Harokopio University of Athens, Athens, Greece

PP116
Engineering Nickel-Aluminum Reactive Powders: Influence of Ball Milling Duration and Starting Particle Size on Specific Surface Area and Skeletal Density

Antonis Kyriacou*, Nikolaos Kostoglou, Emre Gunduz***, Claus Rebholz***

*Department of Mechanical and Manufacturing Engineering, University of Cyprus, Nicosia, Cyprus

** Department of Materials Science, Montanuniversität Leoben, Leoben, Austria

*** Mechanical and Aerospace Engineering Department, Naval Postgraduate School, Monterey, CA, United States

PP117
Development of an Optimal Method for the Quantification of Albendazole Solid State Form II in Pharmaceutical Formulations

Maria Bantounou*, Christos Kontoyannis*, Malvina Orkoulou*

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Poster Session B Friday 27th September 2024
"Alkis Argyriadis" Foyer
PP118
Polyfluoro Ketones as Potent and Selective Inhibitors of GVIA iPLA₂: Synthesis & Biological Activity

Charikleia S. Batsika*, Asimina Bourboula*, Daiki Hayashi, Masakazu Shinohara***, Edward A. Dennis****, George Kokotos***

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*** Division of Molecular Epidemiology, Kobe University Graduate School of Medicine, Kobe, Japan

**** Department of Pharmacology and Department of Chemistry and Biochemistry, University of California San Diego, La Jolla, California, USA

PP119
Cs-sorption onto Greek Zeolites and Bentonites

Fedon Mesthanefs*, Filippas Karantoumanis*, Evangelos Mpourazanas*, Panagiotis Tsamos*, Fotini Noli*

*Department of Chemistry, Radiochemical Laboratory of the General & Inorganic Chemistry Faculty, Aristotle University, Thessaloniki, Greece

PP120
Dual HDAC – Proteasome Hybrid Inhibitors with Antiproliferative Activity Against Multiple Myeloma

Dafni Graikioti*, Angelica Ferro*, Emre Gezer*, Constantinos M. Athanassopoulos***, Muriel Cuendet*,****

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PP121
Optimization and Validation of Analytical Methodology for the Determination of Pesticides During the Winemaking Process with QuEChERS Extraction and Gas Chromatography-Mass Spectrometry

Dionysia L. Sykalia¹, Epameinondas P. Trantopoulos¹, Charoula S. Tsoutsis^{1,2}, Triantafyllos A. Albanis^{1,2}

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Poster Session B Friday 27th September 2024
"Alkis Argyriadis" Foyer
PP122

A Molecular Level Study of the Aqueous Microsolvation of Alkali Metal Chlorides and Alcohols
Pneumatiki Athanasia Karantoni*, Demeter Tzeli**

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** Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation, Athens, Greece

PP123

A New Recycling Technology for the Development and Production of Premixed Thermal Insulating Mortars from Rigid Polyurethane and Polystyrene Waste Foams

Antonis Kountouris*, Kypros Efstathiou**, Dimitrios Manolakos*, Claus Rebholz****

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** Department of Mechanical and Manufacturing Engineering, University of Cyprus, Nicosia, Cyprus

*** Nicolaides & Kountouris Metal Company Ltd, Nicosia, Cyprus

PP124

Bio-Based Thermosetting Epoxy Polymers from Biomass-Derived Sugar-Based Monomers

Zoi-Lina Koutsogianni¹, Christina Pappa¹, Dimitrios Bikiaris¹, Konstantinos S. Triantafyllidis^{1,2}

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PP125

Towards Next Generation HRMS-Based Environmental Biomonitoring for Broad Coverage in the Chemical Universe

Georgios Gkotsis*, Konstantina Diamanti*, Nikolaos S. Thomaidis*

* National and Kapodistrian University of Athens, Athens, Greece

PP126

Polyurea-Crosslinked Biopolymer Aerogels with no need for Supercritical Drying
Argirios Gomas, Artemisia Zoi, Grigorios Raptopoulos, Patrina Paraskevopoulou

Inorganic Chemistry Laboratory, Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece

PP127

Valorization of Winery Wastes: Physicochemical and Spectroscopic Characteristics of the Humified Biomass

Panagiota Manoli*, Ilaeira Rapti*, Christina Tzakou*, Georgios Patakioutas, Dimitra Hela***

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** Department of Agriculture, University of Ioannina, Arta, Greece

Poster Session B Friday 27th September 2024
"Alkis Argyriadis" Foyer
PP128

Antioxidant Activity of Extracts of 17 Medicinal Plants

Aliki Tsakni*, Archontoula Chatzilazarou, Panagiotis Halvatsiotis***, Dimitra Houhoula***

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PP129

Development of a Hybrid Water-Soluble Porphyrin-Carbon Dot Material as Phototherapeutic Agent

Sofoklis Chouliaras¹, Sotiria Eginloglou¹, Makrina Katsanopoulou¹,

Christina Konstantina Tsamtzidou¹, Kalliopi Ladomenou¹

¹Hephaestus Laboratory, School of Chemistry, Faculty of Sciences, Democritus University of Thrace, Kavala, Greece

PP130

Multivariate Discrimination of Salivary Profile and Salivary Biomarkers Identification at Different Physical Exercise Intensities Utilizing ATR-FTIR Spectroscopy

Christoforos Chrimatopoulos*, Grigorios Chrimatopoulos, Vasilios Sakkas***

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** Department of Mathematics, School of Sciences, University of Ioannina, Ioannina, Greece

PP131

The Application of Isotopic Techniques and Chemometric Analysis to Verify the Declaration of Cypriot Potatoes in Greek Market

Charalampos Louka, Elena Ioannou Papayianni, Eleni Tzoni, Chara Savvidou, Constantinos

Damaskinos, Maria Tarapoulouzi, Rebecca Kokkinofa

State General Laboratory, Nicosia, Cyprus

PP132

A New Family of Heterometallic [Cu₆M₄] (M = Gd, Tb, Dy and Y) Clusters Derived from the Combined Use of Selected Pyridyl Poly-Alcohol Ligands

Antonios Anastassiades*, Dimitris I. Alexandropoulos*, Christian D. Buch, Stergios Piligkos**, A. J. Tasiopoulos***

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4th Day Saturday 28th September 2024

"Ioannis Drakopoulos" Amphitheatre

Moderators: Zoe Cournia (BRFAA) - Anthoula Papageorgiou (NKUA)	
09:00-09:30	INVL11 - Theoretical Prediction of a Novel Class of Electrides for Applications in Redox Catalysis and Quantum Computing Andrei Evdokimov*, Evangelos Miliordos* <i>*Department of Chemistry and Biochemistry, Auburn University, Auburn, Alabama, USA</i>
09:30-09:50	OP79 - Tuning the Photophysical Properties of Heterocyclic Compounds and Transition Metal Complexes Elefterios Papamichalis*, Konstantinos Pantelis Zois*, Eleni Dimou*, Georgios Ampeliatis*, Demeter Tzeli** <i>*Laboratory of Physical Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Panepistimiopolis Zografou, Athens, Greece</i> <i>**Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation, Athens, Greece</i>
09:50-10:10	OP80 - Creating Electrically Polarized Films by Vapor Deposition Athanasios A. Tsekouras , Physical Chemistry Laboratory, Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece
10:10-10:20	OP81 - MOFSynth: A Computational Tool Toward Synthetic Likelihood Predictions of MOFs Charalampos Livas*, Pantelis Trikalitis*, George Froudakis* <i>*Department of Chemistry, University of Crete, Heraklion, Greece</i>
10:20-10:30	OP82 - Higher-Order Coupled Cluster Corrections Based on Λ: A Reliable Compromise Between Cost and Accuracy Emmanouil Semidalas^a, Maciej Spiegel^a, Megan R. Bentley^b, John F. Stanton^b, Amir Karton^c, Jan M. L. Martin^a <i>^aDepartment of Molecular Chemistry and Materials Science, Weizmann Institute of Science, Rehovot, Israel</i> <i>^bQuantum Theory Project, Department of Chemistry, University of Florida, Gainesville, FL, USA</i> <i>^cSchool of Science and Technology, University of New England, Armidale, New South Wales, Australia</i>
10:30-10:40	OP83 - Theoretical Investigation of MOF'S Linker Functionalization for Enhancing Desalination Electra Manoura^{1,2}, Michael Vlachos^{1,2}, Emmanuel Tylianakis^{1,2}, George E. Froudakis¹ <i>¹Department of Chemistry, University of Crete, Voutes, Heraklion, Greece</i> <i>²Department of Materials Science and Engineering, University of Crete, Voutes, Heraklion, Greece</i>

4th Day Saturday 28th September 2024

"Ioannis Drakopoulos" Amphitheatre

10:40-10:50	OP84 - Using Free Energy Perturbation Calculations to Predict Binding Affinities in Drug Design Michail Papadourakis*, Julien Michel**, Andreas Koutselos***, Zoe Cournia* <i>*Biomedical Research Foundation, Academy of Athens, Athens, Greece</i> <i>**EaStCHEM School of Chemistry, University of Edinburgh, Edinburgh, UK</i> <i>***Department of Chemistry, National and Kapodistrian University of Athens, Panepistimiopolis, Athens, Greece</i>
10:50-11:00	OP85 - Assessment of Plasma Metal and Metalloid Levels in Anorexia Nervosa Patients using ICP-MS: A Comparative Study with Healthy Controls and Individuals with Constitutional Thinness Konstantinos Koutoulougenis*, Charalampia Amerikanou*, Aikaterini Sakellari**, Despoina Georgiou**, Theodoros Soulis**, Sotirios Karavoltos**, Andriana C. Kaliora* <i>*Department of Nutrition and Dietetics, School of Health Science and Education, Harokopio University of Athens, Athens, Greece</i> <i>**Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece</i>
11:00-11:30	Coffee Break
Moderators: Andreas Koutselos (NKUA) - Demeter Tzeli (NKUA)	
11:30-12:00	INVL12 - Micro/Nano - Structured Functional Surfaces and Devices by Laser Processing Maria Kandyla , Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation, Athens, Greece
12:00-12:20	OP86 - The Unique Structural Features of Water, Ranging from Ambient Liquid up to Supercritical, Extreme-Pressure Conditions: Insights from Classical and ab initio Molecular Dynamics Simulations Ioannis Skarmoutsos , Laboratory of Physical Chemistry, Department of Chemistry, University of Ioannina, Ioannina, Greece
12:20-12:40	OP87 - Indigo Based Low Dimensional Coordination Materials: From Polymers to Networks on Surfaces Anthoula C. Papageorgiou , Chemistry Department, National and Kapodistrian University of Athens, Athens, Greece and Technical University of Munich, TUM School of Natural Sciences, Physics Department, Munich, Germany
12:40-13:00	OP88 - Studying Protein-Membrane Interfaces using Molecular Simulations and Artificial Intelligence Zoe Cournia , Biomedical Research Foundation, Academy of Athens, Athens, Greece

4th Day / Saturday 28th September 2024

"Ioannis Drakopoulos" Amphitheatre

13:00-13:10	OP89 - Exploring KRAS-4B Membrane Dynamics with Coarse-Grained Molecular Dynamics Simulations Nastazia L. Lesgidou¹, Panagiotis I. Koukos¹, Stefan Doerr¹, Sepehr Dehghani-Ghahnaviyeh², Camilo Velez-Vega², José Duca², Zoe Cournia¹ ¹ Biomedical Research Foundation, Academy of Athens, Athens, Greece ² Computer-Aided Drug Discovery, Global Discovery Chemistry, Novartis Institutes for BioMedical Research, Cambridge, Massachusetts, USA
13:10-13:20	OP90 - Enhanced Adsorption of Perfluorooctanoic Acid (PFOA) using Functionalized MOF-808: Insights from DFT and GCMC Calculations Dionysios Raptis*, Emmanuel Tylianakis**, Andreas Mavrandonakis***, George E. Froudakis* *Department of Chemistry, University of Crete, Heraklion, Greece **Department of Materials Science and Engineering, University of Crete, Heraklion, Greece ***Material Science Institute of Madrid (ICMM-CSIC), Cantoblanco, Madrid, Spain
13:20-13:30	OP91 - Do-It-Yourself Type Spectrophotometers for the School Lab Christodoulos Makedonas , Evangeliki Model High School of Smyrna, Nea Smyrni, Greece
13:30-13:40	OP92 - Colorimetric Analysis in Secondary Education, a Simulation with Portable Electronic Devices and Food Coloring Substances Panagiotis Kotsikis , Secondary Education Teacher / Chemist, MSc, 2 nd General Lyceum Salamina, Salamina, Greece
13:40-14:00	Conclusions - Closing of the Conference



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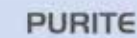
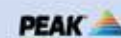
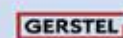
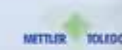
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