

INFRASTRUCTURE FOR PROMOTING METROLOGY IN FOOD AND NUTRITION

BIOMIC

Faculty of Engineering,

Aristotle University of Thessaloniki

@CIRI-AUTH

27-29 April 2018, Thessaloniki, Greece

KEDEA (Aristotle University Research Dissemination Center) building

3is Septemvriou street, Thessaloniki

Friday, 27th April 2018

13 ⁰⁰ -17 ⁰⁰	Registration
15 ⁰⁰	Opening and welcome remarks
15 ⁰⁵	Welcome and presentation of the Center for Interdisciplinary Research and Innovation, AUTH (CIRI-AUTH)
	Prof. Angeliki Lemonidou, Vice-Head, School of Chemical Engineering, Aristotle University of Thessaloniki, Greece and CIRI-AUTH
15 ¹⁵	Presentation of MICROMETABOLITE project
	Dr. Angela Sessitsch, Coordinator of MICROMETABOLITE project, AIT Austrian Institute of Technology, Center for Health and Bioresources, Vienna,
	Austria
	Session 1. Biodiversity
	Chairs: Prof. Minas Yiangou, School of Biology (AUTH) - Prof. Stella Kokkini, School of Biology (AUTH)
15 ³⁰	Natural Science Collections in the big open data era: Addressing bio-economy challenges through biodiversity discovery
	Dr. Dimitrios Koureas, Head of Department, ISBI, Naturalis Biodiversity Center, Leiden, Netherlands
16 ⁰⁰	Linking Biodiversity to Ethnopharmacology: The experience of Cretan lama research group
	Ass. Prof. Stergios Pirintsos, School of Biology, University of Crete, Greece
16 ³⁰	Coffee Break
17 ⁰⁰	Biodiversity at Molecular Level: From identification of wild plants to the commercial herbs and spices
	Assoc. Prof. Kostas Vlachonasios, School of Biology, Aristotle University of Thessaloniki, Greece
17 ³⁰	Plant Production Systems for Novel Products
	Philipp Rödel, Institut für Pflanzenkultur (IFP), Germany & Inoq GmbH, Germany
18 ⁰⁰	Microorganisms of global biodiversity as a source of bioactive metabolites for the discovery and development of novel cosmeceutical agents
	Ass. Prof. Nikolaos Fokialakis, Department of Pharmacy, National and Kapodistrian University of Athens, Greece





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Saturday, 28th April 2018

Session 2. Downstream processing of Natural Products

Chairs: Ass. Prof. Christos Chatzidoukas, School of Chemical Engineering (AUTH) - Assoc. Prof. Nektarios Aligiannis, Department of Pharmacy (UoA)

900 **Screening of Solvents for Separation Processes**

Ass. Prof. Ioannis Tsivintzelis, School of Chemical Engineering, Aristotle University of Thessaloniki, Greece

930 Extraction procedures for polar phenolic compounds

Ass. Prof. Nikos Nenadis, Department of Chemistry, Aristotle University of Thessaloniki, Greece

10⁰⁰ Recovery of high added-value compounds from natural sources using environmentally friendly techniques

Assoc. Prof. Nektarios Aligiannis, Department of Pharmacy, National and Kapodistrian University of Athens, Greece

10³⁰ **Coffee Break**

11⁰⁰ NMR and HPLC: two complementary methods for targeted isolation of natural products

Ass. Prof. Anastasia Karioti, School of Pharmacy, Aristotle University of Thessaloniki, Greece

11³⁰ Recent innovations for a global exploitation of natural resources

Dr. Jamal Ouazzani, Research Director, National Center for Scientific Research CNRS & Natural Product Chemistry Institute ICSN, France

Session 3. Analytical Techniques

Chairs: Prof. George Theodoridis, Department of Chemistry (AUTH) - Ass. Prof. Eleni Gika, School of Medicine (AUTH)

12⁰⁰ NMR spectroscopy

> Prof. Ioannis P. Gerothanassis, Vice Chairman of Hellenic Quality Assurance & Accreditation Agency, Department of Chemistry, University of Ioannina, Greece

12³⁰ Mass spectrometry - introduction to high resolution and ambient ionization methods

Ass. Prof. Evagelos Gikas, Department of Pharmacy, National and Kapodistrian University of Athens, Greece

13⁰⁰ **Lunch Break**

 14^{00} RAMAN spectroscopy: theory and applications

Assoc. Prof. Dimitris Christofilos, School of Chemical Engineering, Aristotle University of Thessaloniki, Greece

15⁰⁰ Applications of High Performance Thin Layer Chromatography in Natural Product Extracts

Vana Mpoka, Phytochemistry Lab Manager, APIVITA SA, Athens, Greece





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	Session 4Omics
	Chairs: Ass. Prof. Nikolaos Fokialakis, Department of Pharmacy (UoA) - Ass. Prof. Eleni Gika, School of Medicine (AUTH)
15 ³⁰	Metabolomics. Introduction to the field
	Prof. George Theodoridis, Department of Chemistry, Aristotle University of Thessaloniki, Greece
16 ⁰⁰	NMR in Metabolomics
	Prof. Ioannis P. Gerothanassis, Vice Chairman of Hellenic Quality Assurance & Accreditation Agency (HQA), Department of Chemistry, University of
	Ioannina, Greece
16 ³⁰	Coffee Break
17 ⁰⁰	Targeted Metabolomics. A paradigm of method development and validation
	Dr. Christina Virgiliou, Department of Chemistry, Aristotle University of Thessaloniki, Greece
17 ³⁰	LC-MS pre-processing, from peaks to numbers
	Dr. Alexandros Pechlivanis, Faculty of Medicine, Department of Surgery & Cancer, Imperial College London
18 ⁰⁰	The route from raw data to biochemical pathway annotation

Dr. Olga Deda, School of Medicine, Aristotle University of Thessaloniki, Greece



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Sunday, 29th April 2018

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	Session 5. Biological activities
	Chairs: Prof. Maria Tsimidou, Department of Chemistry (AUTH) - Prof. Dimitra Hadjipavlou-Litina, School of Pharmacy (AUTH)
900	The multifunctional biological profile of natural products
	Prof. Dimitra Hadjipavlou-Litina, Department of Pharmaceutical Chemistry, School of Pharmacy, Aristotle University of Thessaloniki, Greece
9 ³⁰	Experimental breast cancer models in natural compound research
	Prof. Dr. Günter Vollmer, Institut für Zoologie Molekulare Zellphysiologie und Endokrinologie, Technische Universität Dresden, Germany
10 ⁰⁰	Structure-antioxidant activity relationships
	Dr. Stella Ordoudi, Department of Chemistry, Aristotle University of Thessaloniki, Greece
10 ³⁰	Molecular, cellular and pharmaceutical engineering data about the interaction of natural products on the GPCR OXER1
	Prof. Elias Castanas, School of Medicine, University of Crete, Greece
11 ⁰⁰	Coffee Break
	Session 6. Technological & Biotechnological applications
	Chairs: Prof. Dimitra Hadjipavlou-Litina, School of Pharmacy (AUTH) - Prof. Maria Tsimidou, Department of Chemistry (AUTH)
11 ³⁰	Smart delivery of bioactive compounds in biomedical and personal care applications
	Assoc. Prof. Amalia Aggeli, School of Chemical Engineering, Aristotle University of Thessaloniki, Greece
12 ⁰⁰	Essential oils: analysis and biological activities
	Assoc. Prof. Manto Lazari, School of Pharmacy, Aristotle University of Thessaloniki, Greece
12 ³⁰	Alkannins and Shikonins: From ancient codes to modern medicine
	Assoc. Prof. Andreana N. Assimopoulou, School of Chemical Engineering, Aristotle University of Thessaloniki, Greece
13 ⁰⁰	Lunch Break
14 ⁰⁰	Saffron. An integrated presentation of the potential of a natural product
	Prof. Maria Tsimidou, Department of Chemistry, Aristotle University of Thessaloniki, Greece
14 ³⁰	Natural molecular scaffolds, from compounds to biosynthesis
	Dr. Géraldine Le Goff, Researcher Engineer, Natural Product Chemistry Institute ICSN & National Center for Scientific Research CNRS, France
15 ⁰⁰	Production of carotenoids
	Ass. Prof. Fani Mantzouridou, Department of Chemistry, Aristotle University of Thessaloniki, Greece
15 ³⁰	Sustainable photosynthetic production of high-added value bioproducts
	Ass. Prof. Christos Chatzidoukas, School of Chemical Engineering, Aristotle University of Thessaloniki, Greece
16 ⁰⁰	Summer School Closing





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Organizing Committee

Assoc. Prof. Andreana N. Assimopoulou, School of Chemical Engineering, AUTH | NatPro-AUTH @CIRI-AUTH Ass. Prof. Eleni Gika, School of Medicine, AUTH | NatPro-AUTH & BIOMIC @CIRI-AUTH Prof. Dimitra Hadjipavlou-Litina, School of Pharmacy, AUTH | NatPro-AUTH @CIRI-AUTH Prof. Stella Kokkini, School of Biology, AUTH | NatPro-AUTH @CIRI-AUTH Prof. George Theodoridis, Department of Chemistry, AUTH | BIOMIC @CIRI-AUTH Prof. Maria Tsimidou, Department of Chemistry, AUTH | NatPro-AUTH @CIRI-AUTH

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