

27-29 April 2018, Thessaloniki, Greece



3is Septemvriou street, Thessaloniki



BIOMIC @CIRI-AUTH



Faculty of Engineering,
Aristotle University of Thessaloniki

## Friday, 27th April 2018

13 <sup>00</sup> -17 <sup>00</sup>	Registration
<b>15</b> <sup>00</sup>	Opening and welcome remarks
<b>15</b> <sup>15</sup>	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
15 <sup>30</sup>	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
<b>16</b> <sup>00</sup>	Linking Biodiversity to Ethnopharmacology: The experience of Cretan lama research group
	Ass. Prof. Stergios Pirintsos, School of Biology, University of Crete, Greece
16 <sup>30</sup>	Coffee Break
<b>17</b> <sup>00</sup>	Biodiversity at Molecular Level: From identification of wild plants to the commercial herbs and spices
	Ass. Prof. Kostas Vlachonasios, School of Biology, Aristotle University of Thessaloniki, Greece
<b>17</b> <sup>30</sup>	Plant Production Systems for Novel Products
	Philipp Rödel, Institut für Pflanzenkultur (IFP), Germany & Inoq GmbH, Germany
18 <sup>00</sup>	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



**KEDEA (Aristotle University Research Dissemination Center) building** 

METRO FOOD

INFRASTRUCTURE FOR PROMOTING METROLOGY IN FOOD AND NUTRITION

BIOMIC



Faculty of Engineering,

Aristotle University of Thessaloniki

@CIRI-AUTH

27-29 April 2018, Thessaloniki, Greece

3is Septemvriou street, Thessaloniki

## Saturday, 28th April 2018

Saturday, 28" April 2018		
	Session 2. Downstream processing of Natural Products	
900	Screening of Solvents for Separation Processes	
	Ass. Prof. Ioannis Tsivintzelis, School of Chemical Engineering, Aristotle University of Thessaloniki, Greece	
<b>9</b> <sup>30</sup>	Extraction procedures for polar phenolic compounds	
	Ass. Prof. Nikos Nenadis, Department of Chemistry, Aristotle University of Thessaloniki, Greece	
<b>10</b> <sup>00</sup>	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	
<b>10</b> <sup>30</sup>	Coffee Break	
<b>11</b> <sup>00</sup>	NMR and HPLC: two complementary methods for targeted isolation of natural products	
	Ass. Prof. Anastasia Karioti, School of Pharmacy, Aristotle University of Thessaloniki, Greece	
<b>11</b> <sup>30</sup>	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	
<b>12</b> <sup>00</sup>	NMR spectroscopy	
	Prof. Ioannis P. Gerothanassis, Vice Chairman of Hellenic Quality Assurance & Accreditation Agency (HQA), Department of Chemistry, University of	
	Ioannina, Greece	
12 <sup>30</sup>	Mass spectrometry - introduction to high resolution and ambient ionization methods	
	Ass. Prof. Evagelos Gikas, Department of Pharmacy, National and Kapodistrian University of Athens, Greece	
13 <sup>00</sup>	Lunch Break	
<b>14</b> <sup>00</sup>	IR and RAMAN vibrational spectroscopies: theory and applications	
	Assoc. Prof. Dimitris Christofilos, School of Chemical Engineering, Aristotle University of Thessaloniki, Greece	
	Assoc. Prof. Ioannis Arvanitidis, School of Physics, Aristotle University of Thessaloniki, Greece	
15 <sup>00</sup>	Applications of High Performance Thin Layer Chromatography in Natural Product Extracts	
	Vana Mpoka, Phytochemistry Lab Manager, APIVITA SA, Athens, Greece	
	varia impoka, Frigitochemistry Lab Manager, AFTVTTA 3A, Athens, Greece	





METRO FOOD

INFRASTRUCTURE FOR PROMOTING
METROLOGY IN FOOD AND NUTRITION

BIOMIC @CIRI-AUTH



ČĢ.

TO THE PERSON NAMED IN COLUMN TO THE

Faculty of Engineering,

Aristotle University of Thessaloniki

#### 27-29 April 2018, Thessaloniki, Greece

#### **KEDEA (Aristotle University Research Dissemination Center) building**

3is Septemvriou street, Thessaloniki

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



METRO FOOL

BIOMIC @CIRI-AUTH

Faculty of Engineering,

Aristotle University of Thessaloniki

27-29 April 2018, Thessaloniki, Greece

**KEDEA (Aristotle University Research Dissemination Center) building** 

3is Septemvriou street, Thessaloniki

Sunday, 29th April 2018

Jana	ay, 25 April 2010
	Session 5. Biological activities
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 <sup>30</sup>	Experimental breast cancer models in natural compound research
	Prof. Dr. Günter Vollmer, Institut für Zoologie Molekulare Zellphysiologie und Endokrinologie, Technische Universität Dresden, Germany
<b>10</b> <sup>00</sup>	Structure-antioxidant activity relationships
20	Dr. Stella Ordoudi, Department of Chemistry, Aristotle University of Thessaloniki, Greece
10 <sup>30</sup>	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 <sup>00</sup>	Coffee Break
	Session 6. Technological & Biotechnological applications
1130	Smart delivery of bioactive compounds in biomedical and personal care applications
	Assoc. Prof. Amalia Aggeli, School of Chemical Engineering, Aristotle University of Thessaloniki, Greece
<b>12</b> <sup>00</sup>	Essential oils: Analysis and Biological activities
	Assoc. Prof. Manto Lazari, School of Pharmacy, Aristotle University of Thessaloniki, Greece
<b>12</b> <sup>30</sup>	Alkannins and Shikonins: From ancient codes to modern medicine
	Assoc. Prof. Andreana N. Assimopoulou, School of Chemical Engineering, Aristotle University of Thessaloniki, Greece
13 <sup>00</sup>	Lunch Break
<b>14</b> <sup>00</sup>	Saffron. An integrated presentation of the potential of a natural product
	Prof. Maria Tsimidou, Department of Chemistry, Aristotle University of Thessaloniki, Greece
14 <sup>30</sup>	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 <sup>00</sup>	Production of carotenoids
20	Ass. Prof. Fani Mantzouridou, Department of Chemistry, Aristotle University of Thessaloniki, Greece
15 <sup>30</sup>	Sustainable photosynthetic production of high-added value bioproducts
4.500	Ass. Prof. Christos Chatzidoukas, School of Chemical Engineering, Aristotle University of Thessaloniki, Greece
16 <sup>00</sup>	Summer School Closing





27-29 April 2018, Thessaloniki, Greece

KEDEA (Aristotle University Research Dissemination Center) building

3is Septemvriou street, Thessaloniki



BIOMIC @CIRI-AUTH



Faculty of Engineering,
Aristotle University of Thessaloniki

## Under the Aegis of



School of Chemical Engineering, Aristotle University of Thessaloniki



Faculty of Engineering,
Aristotle University of Thessaloniki

## **Sponsors**







Faculty of Engineering,
Aristotle University of Thessaloniki



