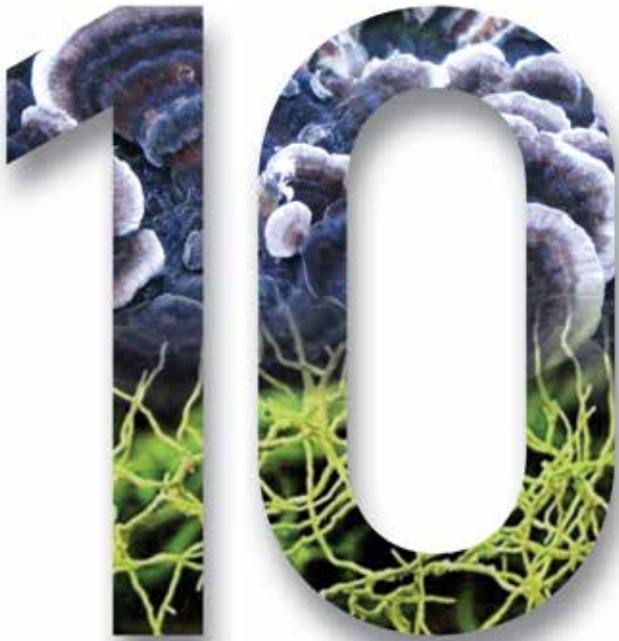


# 7<sup>o</sup> CONFERENCE



## YEARS of Microbial Communities in Action

7-9  
April 2017

Athens  
NATIONAL HELLENIC  
RESEARCH FOUNDATION



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ΕΜΠΟΡΙΑ ΕΠΙΣΤΗΜΟΝΙΚΩΝ ΟΡΥΓΑΝΩΝ

**ΑΝΑΣΤΑΣΙΟΣ  
Δ. ΜΠΙΜΠΛΗΣ**  
ΑΝΤΙΔΡΑΣΤΗΡΙΑ -  
ΑΝΑΛΩΣΙΜΑ ΕΡΓΑΣΤΗΡΙΩΝ

**OLITECH** Ο.Ε.

## Friday 7 April 2017

15:00 - 17:00 **Registration** (on site)

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17:00 - 17:45 **Conference opening – Welcome address**

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### Session 1: Agriculture – Environment | CHAIRPERSONS: M. Typas & D. Karpouzas

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18:00 – 18:40 **Martin, F.M.** (Invited Speaker): Unearthing the roots of mycorrhizal symbioses

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18:40 – 18:55 **Tampakaki, A.:** A novel symbiovar (*aegeanense*) of the genus *Ensifer* nodulates *Vigna unguiculata* in Greece

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18:55 – 19:10 **Omirou, M.:** Rhizosphere-related traits in plant breeding: Current knowledge and future needs

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19:10 – 19:25 **Gkizi, D.:** The role of epigenetic inheritance in sustainable agriculture

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19:25 – 19:40 **Kalntremtziou, M.:** Metagenomic analysis of microorganisms and molecular characterization of lignocellulose-degrading genes from Mediterranean soil habitats

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19:40 – 19:50 **Discussion**

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20:00 **Welcome Reception**

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## Saturday 8 April 2017

### Session 2: Agriculture – Environment | CHAIRPERSONS: P. Katinakis & N. Vassilakos

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09:15 – 09:55 **Nicol, G.** (Invited Speaker): Ammonia oxidising archaea and their contribution to reactive nitrogen fluxes in soil: always good, never bad, sometimes ugly

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09:55 – 10:10 **Papadopoulou, E.S.:** In vitro testing of the inhibitory effect of EQ and its oxidation derivatives on nitrification

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10:10 – 10:25 **Garefalaki, V.:** Study of the functional variability of NAT enzymes in free-living bacteria

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10:25 – 10:40 **Maliogka, V.I.:** Next generation sequencing of siRNAs for the study of new or emerging plant virus diseases: the case of a new lettuce disease in Peloponnese (Greece)

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10:40 – 10:55 **Beris, D.:** Study of the role of PCaP1 plant protein in Potato virus Y adaptation to pepper

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10:55 – 11:05 **Discussion**

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11:05 – 11:30 **Coffee break – Visit to posters**

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### Session 3: Microorganisms and Food | CHAIRPERSONS: E. Panagou & A. Kyriakou

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11:30 – 12:10 **Ercolini, D.** (Invited Speaker): Food - Gut Microbiota-interactions: Effects of a Mediterranean diet

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12:10 – 12:25 **Gerekou, M.:** Differences on the growth of matrix-adapted and non-adapted *L. monocytogenes* strains between *Listeria monocytogenes* on different types of cheeses

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12:25 – 12:40 **Nazou, E.:** Survival of osmotically adapted and non-adapted *Salmonella* spp. in filled brioche like products

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12:40 – 12:55 **Sgouros, G.:** Evaluation of indigenous *Saccharomyces cerevisiae* and non-*Saccharomyces* strains for quality improvement of Nemea Agiorgitiko wine

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12:55 – 13:10 **Sourri, P.:** Inactivation kinetics of *Alicyclobacillus acidoterrestris* spores in orange juice by high hydrostatic pressure in combination with or without heat treatment

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13:10 – 13:25 **Tsakanikas, P.:** Multispectral imaging for non-invasive contamination assessment and microbial mapping on food; meat a case study

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13:25 – 13:35 **Discussion**

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13:35 – 15:00 **Lunch break – Visit to posters**

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13:35 – 14:15 **General Assembly of the Scientific Society “Mikrobiokosmos”**

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## Session 4: Molecular Mechanisms & Microorganisms |

CHAIRPERSONS: **K.M. Pappas & V.Pletsa**

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15:00 – 15:40 **Hatzimanikatis, V. (Invited Speaker):** Models, databases and computational methods for analysis, synthesis and design of complex metabolic networks

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15:40 – 15:55 **Stamatopoulou, V.:** The role of the glyS T-box riboswitch on the *Staphylococcus aureus* gene expression and its regulation by antibiotics

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15:55 – 16:10 **Poulis, P.:** Evidence for LexA-dependent regulation of the *Zymomonas mobilis* recA and lexA genes

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16:10 – 16:25 **Parapouli, M.:** Cloning and overexpression of a new lipSm gene from *Stenotrophomonas maltophilia* Psi-1, purification and characterization of the encoded lipase (LipSm), the first member of a new family, XVIII

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16:25 – 16:40 **Korovesi, A.G.:** rps3 gene and its role to the evolution of fungal mitochondrial genomes

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16:40 – 16:55 **Papaioannou, I.A.:** Meiosis without crossing-over: genome evolution and mechanisms of meiosis in the new model yeast *Saccharomyces ludwigii*

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16:55 – 17:05 **Discussion**

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17:05 – 17:30 **Coffee break – Visit to posters**

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## Session 5: Laboratory Infrastructures at National Level | MODERATOR: **G. Tsiamis**

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17:30 – 17:40 **Papadopoulou, K.:** OMIC-Engine: from omics technologies to genomic engineering. A national infrastructure on Synthetic Biology

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17:40 – 17:50 **Savakis, C.:** Mikrobiokosmos and ELIXIR: Reciprocal relationships

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17:50 – 18:00 **Tavernarakis, N.:** BiImaging-GR: The National Infrastructure

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18:00 – 18:10 **Arvanitidis, C.:** Construction and operation of the LifeWatchGreece Research Infrastructure (ESFRI): examples of Biodiversity Informatics virtual laboratories

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18:10 – 18:20 **Magoulas, A.:** EMBRC - European Marine Biological Resource Centre

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18:20 – 18:30 **Chrysina, E.D.:** The National Research Infrastructures on Integrated Structural Biology, Drug Screening Efforts and Drug target functional characterization

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18:30 – 18:40 **Katsifas, S.:** Hellenic Network of Collections of Microbial Resources

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18:40 – 18:50 **ANTISEL S.A. (Congress Sponsor):** 16S Metagenomic Analysis using NGS

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18:50 – 19:10 **Discussion**

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19:10 – 19:30 **New Administration Board of the Scientific Society “Mikrobiokosmos”:**

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21:00 **Congress Dinner**

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## Sunday 9 April 2017

## Session 6: Environment | CHAIRPERSONS: H. Karayanni &amp; K. Kormas

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- 09:15 – 09:55 **Christaki, O. (Invited Speaker):** Ecosystem responses to natural iron fertilization of the Southern Ocean: Can we establish links between biodiversity and carbon fluxes?
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- 09:55 – 10:10 **Maggiopoulos, I.:** A multi-parametric assessment of decontamination protocols for the subglacial Lake Ellsworth probe
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- 10:10 – 10:25 **Meziti, A.:** Seasonal changes of bacterial communities along the Kalamas River at the individual population level
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- 10:25 – 10:40 **Stefanidou, N.:** Warming and salinity change effects on plankton microeukaryotes molecular and functional diversity of Thermaikos Gulf in a mesocosm experiment
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- 10:40 – 11:00 **Coffee Break – Visit to posters**
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## Session 6: Environment (cont.)

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- 11:00 – 11:15 **Nikolaki, S.:** Ecotoxicological impact of three pesticides on soil fungal diversity
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- 11:15 – 11:30 **Vasileiadis, S.:** Community-wide functional and structural microbial responses to silver in nine soils
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- 11:30 – 11:45 **Nikouli, E.:** The effect of fishmeal substitution by non-ruminant processed animal proteins on the gut microbiome of gilthead seabream juveniles (*Sparus aurata*)
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- 11:45 – 12:00 **Augoustinos, A.:** Monitoring of the laboratory adaptation of *Ceratitis capitata* reveals a variety of factors influencing the structure of the gut symbiotic communities
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- 12:00 – 12:10 **Discussion:**
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- 12:10 – 12:30 **Coffee break – Visit to posters**
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## Session 7: New Technologies – Biotechnological Applications |

CHAIRPERSONS: V. Topakas &amp; D. Vayenas

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- 12:30 – 13:10 **Kalogerakis, N. (Invited Speaker):** Biodegradation of plastics in the marine environment: Is there any hope for the Mediterranean Sea?
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- 13:10 – 13:25 **Asimakis, E.:** Assessing the potential of soil microbial communities in degrading pesticides with the use of a DNA microarray
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- 13:25 – 13:40 **Balomenos, A.D.:** Bacterial Single-Cell Analytics (BaSCA) methodology for high-throughput systems microbiology
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- 13:40 – 13:55 **Remmas, N.:** Biotechnological potential of novel extremophiles from landfill leachate
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- 13:55 – 14:10 **Vayenas, D.:** Microalgae/cyanobacteria applications in agro-industrial wastewater treatment with simultaneous production of biofuels
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- 14:10 – 14:20 **Discussion:**
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- 14:20 – 14:30 **“Costas Drainas” Fellowship, Awards for the best three poster presentations**
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- 14:30 – 15:00 **Open Discussion – Future Prospects for Mikrobiokosmos**
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