

# PROGRAMME

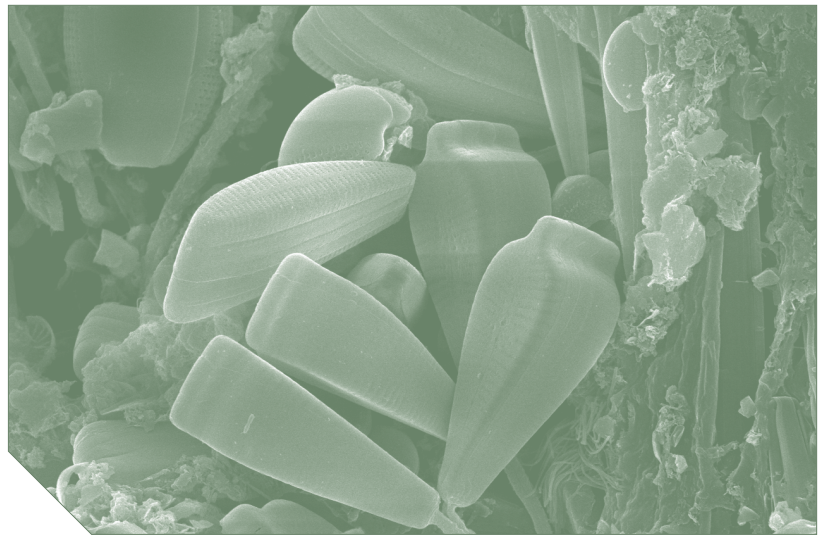
of the

## 6<sup>th</sup> Central European Forum for Microbiology



hosted by the

## Hungarian Society for Microbiology



Organized by the **Hungarian** Society for Microbiology,  
the **Croatian** Microbiological Society,  
the **Slovenian** Microbiological Society  
and the **Foundation** of the Hungarian Society for  
Microbiology

Hotel **Aranyhomok**  
**Kecskemét**, Hungary  
October **13–15**, 2021

**PROGRAMME**  
of the

**6<sup>th</sup> Central European Forum for  
Microbiology**

hosted by the

**Hungarian Society for Microbiology**

Organized  
by the

Hungarian Society for Microbiology,  
the  
Croatian Microbiological Society,  
the  
Slovenian Microbiological Society  
and the

Foundation of the Hungarian Society for Microbiology

Hotel Aranyhomok  
Kecskemét, Hungary  
October 13-15, 2021



Dear Participants, dear Colleagues!

Joyless commonplace is to state, that the recent coronavirus pandemic in many aspects determines our life. The CEFORM Conference is not an exemption either.

We make every effort to organize a safe Conference with fully personal attendance. All participants are encouraged to come to Kecskemét and to assume fruitful personal scientific discussions. However, we know that travel restrictions e.g. may influence even the most sincere intentions and plans. This is why we prepare the possibility to join to the conference through the web (hybrid lectures). Most of the participants shall be on spot, others will join through the web. The TEAMS environment will be applied. Participants joining to the work of the conference through the web, shall have on their computer a Windows 10 Office 365 system, or should install the free TEAMS application (<https://www.microsoft.com/hu-hu/microsoft-365/microsoft-teams/download-app>). The links will be sent in due time. Participants through the web are kindly asked to control proper functioning of their camera and microphone prior to joining. Chairpersons should take special care to the web based attendees.

Classical poster presentations (stands, paper prints) are beyond reason. We kindly ask the poster presenters to send their posters in advance to the conference organizers ([mmt@wecotravel.hu](mailto:mmt@wecotravel.hu)) in the pdf version of the print format. The posters will be accessible on a conference site throughout the three days. Poster presentations however have to be delivered in 2-3 minutes in the time and Poster Session specified in the Programme of CEFORM Conference. Maximum 5 slide ppt presentations are expected, a kind of a mini-talk. What concerns the content of the slides; we propose first to introduce the topic and the objectives, then the applied methodology, followed by the results, and finally the explanation and discussion of the results accompanied by some „augmented” sentences. The five-minute slots allotted to the presentations include also questions and comments from the audience!

One more request. You are kindly asked to accept, and adapt to the local epidemiological protocol!

Mindful participants facilitate the success of OUR conference!

The organizers

## Programme at a glance

---

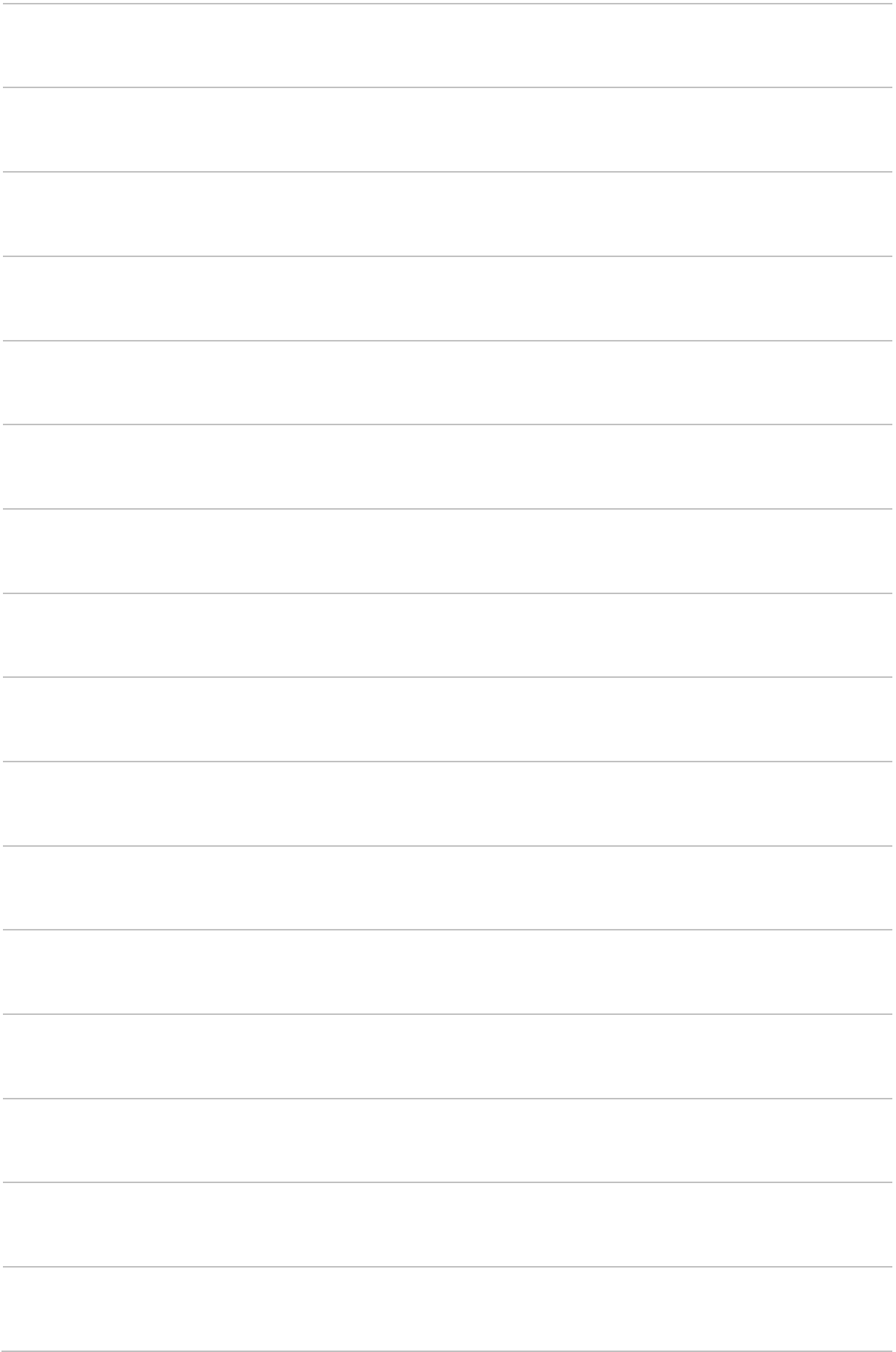
Tuesday, October 12	18.00-21.00	Registration
Wednesday, October 13	8.00-17.00	Registration
	Conference Hall	
	11.00-11.30	Opening Ceremony
	11.30-12.00	Rezső Manninger Memorial Session - Manninger Lecture
	12.00-13.00	Rezső Manninger Memorial Session - European Vademecum of SARS-Cov-2
	13.00-14.00	Lunch break
	Conference Hall	
	14.00-17.00	Elek Farkas Memorial Session - European Vademecum of SARS-Cov-2
	Kecskemét city	
	18:00	Facultative programme – Walking tour in the city and dinner accompanied with wine tasting
Thursday, October 14	8.00-13.00	Registration
	Conference Hall	
	9.00-10.30	István Földes European Vademecum of SARS-Cov-2 Semiplenary Session
	11.00-12.30	József Bánhegyi Mycology Session
	12.30-13.30	Lunch break
	13.30-16.35	Mycology Poster Session
	17.00-18.00	Round table discussion - Current Trends in Microbial Omics
	Lecture Hall	
	9.30-11.00	Ádám Kondorosi Environmental Microbiology Session
	11.30-12.30	Károly Rauss Bacteriology Session
	12.30-13.30	Lunch break

---

	13.30-14.30	Károly Rauss Bacteriology Session
	15.00-16.30	Ádám Kondorosi Environmental Microbiology Session
	16.30	ASM membership and its benefits
Poster Hall		
	9.00-10.40	Agricultural Microbiology Poster Session
	11.30-12.45	Environmental Microbiology Poster Session
	12.45-14.00	Lunch break
	14.00-14.40	Emőke Ferenczi Memorial Session - Virology Poster Session
	15.00-15.35	Industrial Microbiology Poster Session
	16.00-16.50	Bacteriology Poster Session
Hotel		
Aranyhomok - Restaurant	19.00-	CEFORM Reception

Friday, October 15

Conference Hall		
	8.30-12.15	Endre Hőgyes Molecular Diagnostics and Pathogenesis Session
	12.15-14.00	Lunch break
	14.00-14.30	Closing Ceremony and Farewell Drink Delivery of the poster competition prize
Lecture Hall		
	8.30-10.15	Vilmos Westsik Agricultural Microbiology Session
	10.30-11.15	Luis Federico Leloir Industrial Microbiology Session
	11.30-12.45	Otto Wallach Food Microbiology Session
	12.45-14.00	Lunch break



## **Detailed Programme**





**Wednesday, October 13**

Conference Hall

**11.00-11.30 Opening Ceremony**

Welcome Addresses of

**KÁROLY MÁRIALIGETI**

President of the Hungarian Society for Microbiology

**MARJANCA STARČIČ ERJAVEC**

President of the Slovenian Microbiological Society

**ROBERTO ANTOLOVIĆ**

President of the Croatian Microbiological Society

**11.30-13.00 Rezső Manninger Memorial Session**

**Manninger, Rezső** (1890-1970), Hungarian veterinarian, an outstanding scholar of veterinary microbiology and epidemiology. He became famous for discovering animal disease causing viruses, and for the elaboration of effective preventive measures for different epidemic veterinary diseases. President of the Hungarian Society for Microbiology from 1958-1967. HSM founded the Rezső Manninger Memorial Medal in 1973.

Chairpersons: Károly Márialigeti, and Norbert Nowotny

**Manninger Lecture**

11.30-12.00

ZOLTÁN KIS

**EMERGING AND RE-EMERGING INFECTIOUS DISEASES AS THE BIGGEST CHALLENGE OF PUBLIC HEALTH**

National Biosafety Laboratory, National Public Health Center, Budapest, Hungary

**European Vademecum of SARS-Cov-2**

12.00-12.30

SARS-1

JOHN ZIEBUHR

**SARS-CoV-2 REPLICATION-TRANSCRIPTION COMPLEX: IDENTIFYING PROMISING TARGETS FOR ANTIVIRAL THERAPY**

Institute of Medical Virology, Justus Liebig University Giessen, Giessen, Germany

12.30-13.00

SARS-2

NORBERT NOWOTNY

**LESSONS LEARNED FROM THE SARS-CoV-2/COVID-19 PANDEMIC**

Institute of Virology, University of Veterinary Medicine, Vienna, Austria

**13.00-14.00 Lunch break**



## 14.00-17.00 Elek Farkas Memorial Session

**Farkas, Elek** (1911-2004), Hungarian physician, vaccinologist. He obtained medical diploma in 1935 at the Pázmány Péter University, Budapest, and started to working at the Biology Department of National Public Health Institute. He started his career as virologist as a professor at the University of Kolozsvár (today Cluj, Romania), but by ordering him to Ungvár (today Uzhgorod, Ukraine) in 1941, to start the vaccine production against epidemic typhus (caused by *Rickettsia prowazekii*), he interrupted his virology studies. After the II<sup>nd</sup> World War in Budapest, he started working at the Virology Department of the National Public Health Institute and became the head of department in 1948, and was in this position continuously until his retirement in 1972. He played a decisive role in the development of vaccination against viral diseases in Hungary (e.g. influenza, poliomyelitis, morbilli, mumps, measles, variola). He was the co-founder of the Hungarian Society for Microbiology and the Journal Acta Microbiologica Hungarica, and author and editor of several medical virology textbooks.

Chairpersons: Aleksander Mahnic and Zoltán Kis

## European Vademecum of SARS-Cov-2

14.00-14.30

SARS-3

ALEKSANDER MAHNIC

### SARS-CoV-19 VARIANT MONITORING IN SLOVENIA AND WORLDWIDE

Department for Microbiological Research, National Laboratory for Health, Environment and Food, Maribor, Slovenia

14.30-15.00

SARS-4

◆NÓRA MAGYAR<sup>1,2</sup>, JUDIT HENCZKÓ<sup>1,2</sup>, RÓBERT HERCZEG<sup>3</sup>, ANNA NAGY<sup>4</sup>, ESZTER RÓKA<sup>5</sup>, PÉTER URBÁN<sup>3</sup>, DÁNIEL DÉRI<sup>1</sup>, ATTILA GYENESEI<sup>3</sup>, ZOLTÁN KIS<sup>1</sup>, BERNADETT PÁLYI<sup>1</sup>, EFOP 1.8.0 WORKING GROUP<sup>1</sup>

### GENOMIC SURVEILLANCE AND MONITORING OF CIRCULATING AND NEWLY EMERGING VARIANTS OF SARS-CoV-2 IN HUNGARY

National Biosafety Laboratory<sup>1</sup>, National Public Health Center; Schools of PhD Studies<sup>2</sup>, Semmelweis University, Budapest; Szentágothai Research Centre<sup>3</sup>, University of Pécs, Pécs; Department of Virology<sup>4</sup>; Department of Public Health Laboratory<sup>5</sup>, National Public Health Centre, Budapest, Hungary

15.00-15.30

SARS-5

ROK ČIVLJAK

### COVID-19 VS INFLUENZA: PREDICTING THE FUTURE

University Hospital for Infectious Diseases "Dr Fran Mihaljevic", School of Medicine, University of Zagreb, Zagreb, Croatia

## 15.30-16.00 Coffee break

Chairpersons: Ivan Toplak and Orsolya Dobay

16.00-16.30

SARS-6

◆IVAN TOPLAK<sup>1</sup>, DANIJELA ČERNE<sup>1</sup>, MIROSLAV PETROVEC<sup>2</sup>, TOMISLAV PALLER<sup>3</sup>, MONIKA JEVŠNIK VIRANT<sup>2</sup>

### HUMAN AND BOVINE CORONAVIRUSES FOUND IN SLOVENIA IN THE PERIOD FROM 2010 TO 2016

Virology Unit<sup>1</sup>, Institute of Microbiology and Parasitology, Veterinary Faculty; Institute of Microbiology and Immunology<sup>2</sup>, Faculty of Medicine; National Veterinary Institute<sup>3</sup>, Veterinary Faculty, University of Ljubljana, Ljubljana, Slovenia



16.30-17.00

**SARS-7**

◆IVANA LOJKIĆ, LORENA JEMERŠIĆ, DRAGAN BRNIĆ, NINA KREŠIĆ, TOMISLAV KEROS, INES ŠKOKO, JADRANKO BORAS, INGEBORG BATA, DAMIR SKOK, TAJANA AMŠEL ZELENKA, LUKA JURINOVIĆ, VIDA ZRNČIĆ, LEA RUŽANOVIĆ, BORIS HABRUN

**SARS-CoV-2 INVESTIGATION IN WILDLIFE AND ENVIRONMENT**

Croatian Veterinary Institute, Zagreb, Croatia

**18.00- Facultative programme – Walking tour in the city and dinner accompanied with wine tasting.**



**Thursday, October 14**

Conference Hall

**9.00-10.30 István Földes European Vademecum of SARS-Cov-2 Semiplinary Session**

**Földes, István** (1921-2002), Hungarian physician, virologist. Obtained his diploma in 1950 at the Medical University of Budapest. He started his scientific career as a student at the Institute for Pathology and Experimental Cancer Research at the University. He performed PhD studies at the National Public Health Institute, and obtained the degree equivalent to this that time in 1954. During 1954-1972, he was the head of the Pathophysiology Department at the Korányi TBC and Pulmonology Institute. He adopted the radioactive isotope technology in the tuberculosis research. In 1972, he became honorary professor at Semmelweis University, and the head of the Microbiology Research Group of the Hungarian Academy of Sciences, the predecessor of the same group at the National Epidemiology Center. The research group became a productive workshop of retroviruses, tumorigenic viruses, tumor immunology. This group became decisive in the Hungarian AIDS research and diagnostics. He was a founder and a member of Presidency of the Hungarian Society for Microbiology.

Chairpersons: Denis Kutnjak and Zoltán Kis

SARS-8

9.00-9.30

OLIVER KURZAI<sup>1,2</sup>

**SEIZING MULTIPLE OPPORTUNITIES - FUNGAL CO-INFECTIONS IN COVID-19**

Institute for Hygiene and Microbiology<sup>1</sup>, University of Würzburg, Würzburg; National Reference Center for Invasive Fungal Infections NRZMyk<sup>2</sup>, Leibniz Institute for Natural Product Research and Infection Biology, Hans-Knoell-Institute, Jena, Germany

9.30-10.00

SARS-9

◆DÁNIEL DÉRI<sup>1,2</sup>, NÓRA MAGYAR<sup>1,3</sup>, BERNADETT PÁLYI<sup>1</sup>, DÁNIEL SÁNDOR VERES<sup>4</sup>, ZOLTÁN KIS<sup>1</sup>, ERZSÉBET BARCSAY<sup>5</sup>

**EVALUATING THE FIELD PERFORMANCE OF MULTIPLE SARS-CoV-2 ANTIGEN RAPID TESTS USING NASOPHARYNGEAL SWAB SAMPLES**

National Biosafety Laboratory<sup>1</sup>, National Public Health Center; Doctoral School of Biology<sup>2</sup>, Faculty of Science, ELTE-Eötvös Loránd University; Schools of PhD Studies<sup>3</sup>; Department of Biophysics and Radiation Biology<sup>4</sup>, Faculty of Medicine, Semmelweis University; Department of Virology<sup>5</sup>, National Public Health Center, Budapest, Hungary

10.00-10.30

SARS-10

◆DENIS KUTNJAK, MAJA RAVNIKAR, OLIVERA MAKSIMOVIĆ CARVALHO FERREIRA, KATARINA BAČNIK, ŽIVA LENGAR, IRENA BAJDE, ZALA KOGEJ, DAVID STANKOVIĆ, TADEJA LUKEŽIČ, NATAŠA MEHLE, MOJCA MILAVEC, ANŽE ŽUPANIČ, ION GUTIERREZ-AGUIRRE

**FOLLOWING TRENDS OF SARS-CoV-2 EPIDEMICS AND VARIANTS' DYNAMICS USING WASTEWATER ANALYSIS: A SLOVENIAN CASE STORY**

Department of Biotechnology and Systems Biology, National Institute of Biology (NIB), Ljubljana, Slovenia

**10.30–11.00 Coffee break**



Lined writing area consisting of multiple horizontal lines.

## 11.00-12.30 József Bánhegyi Mycology Session

**Bánhegyi, József** (1911 – 1976), Hungarian microbiologist, mycologist. He graduated at the Faculty of Arts of the predecessor of Eötvös Loránd University as natural history - geography teacher in 1934, and started working at the Plant Taxonomy Institute of the University. He obtained his PhD in 1936 and habilitated in 1943. He was the founder and first chair of the Microbiology Department at the University of Agricultural Sciences in Gödöllő, and founder and first professor of the Department of Microbiology at the Faculty of Science Eötvös University Budapest. He's research field involved morels and tinder's and the broad group of wood rotting fungi. He founded and edited different Hungarian mycology journals and book series. Some fungal species are named after him.

Chairpersons: István Pócsi and Csaba Vágvölgyi

11.00-11.15

MOP-1

◆RENÁTÓ KOVÁCS<sup>1</sup>, ÁGNES JAKAB<sup>2</sup>, ÁGOTA RAGYÁK<sup>3</sup>, ZSÓFI SAJTOS<sup>3</sup>, FRUZSINA NAGY<sup>1</sup>, EDINA BARANYAI<sup>3</sup>, ISTVÁN PÓCSI<sup>2</sup>, LÁSZLÓ MAJOROS<sup>1</sup>

### TRANSCRIPTOMIC APPROACHES FOR THE FARNESOL EXPOSURE OF *CANDIDA AURIS*

Department of Medical Microbiology<sup>1</sup>, Faculty of Medicine; Department of Molecular Biotechnology and Microbiology<sup>2</sup>, Institute of Biotechnology; Agilent Atomic Spectroscopy Partner Laboratory<sup>3</sup>, Department of Inorganic and Analytical Chemistry, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary

11.15-11.30

MOP-2

◆ORSOLYA KEDVES<sup>1</sup>, SÁNDOR KOCSUBÉ<sup>1</sup>, TEODÓRA BATA<sup>1</sup>, MARIA A. ANDERSSON<sup>2</sup>, JOHANNA M. SALO<sup>2</sup>, RAIMO MIKKOLA<sup>2</sup>, HEIDI SALONEN<sup>2</sup>, ATTILA SZÜCS<sup>1</sup>, ALFONZ KEDVES<sup>3</sup>, ZOLTÁN KÓNYA<sup>3</sup>, CSABA VÁGVÖLGYI<sup>1</sup>, DONÁT MAGYAR<sup>4</sup>, LÁSZLÓ KREDICS<sup>1</sup>

### *DICHOTOMOPILUS FINLANDICUS* SP. NOV.: A NEW *CHAETOMIUM*-LIKE SPECIES FROM EUROPEAN INDOOR ENVIRONMENTS

Department of Microbiology<sup>1</sup>, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary; Department of Civil Engineering<sup>2</sup>, Aalto University, Aalto, Finland; Department of Applied and Environmental Chemistry<sup>3</sup>, Faculty of Science and Informatics, University of Szeged, Szeged; <sup>4</sup>National Public Health Center, Budapest, Hungary

11.30-11.45

MOP-3

◆DÁNIEL G. KNAPP<sup>1</sup>, GERGŐ TÓTH<sup>1,2</sup>, PÉTER JÁNOS BEREK-NAGY<sup>1,3</sup>, IMRE BOLDIZSÁR<sup>1</sup>, MÁRTA KRASZNI<sup>2</sup>, GALIYA AKHMETOVA<sup>1</sup>, SÁNDOR CSÍKOS<sup>1,3</sup>, JOSE G. MACIÁ-VICENTE<sup>4</sup>, ANDREA PORRAS-ALFARO<sup>5</sup>, IÑIGO ZABALGOGEAZCOA<sup>6</sup>, GÁBOR M. KOVÁCS<sup>1</sup>

### LIGHTING THE DARK – TAXONOMIC AND METABOLIC DIVERSITY OF THE WORLDWIDE COMMON GRASS ROOT ASSOCIATED FUNGAL GENUS *DARKSIDEA*

Department of Plant Anatomy<sup>1</sup>, Institute of Biology, Faculty of Science, ELTE-Eötvös Loránd University; Department of Pharmaceutical Chemistry<sup>2</sup>, Faculty of Pharmacy, Semmelweis University; National Public Health Center<sup>3</sup>, Budapest, Hungary; Plant Ecology and Nature Conservation<sup>4</sup>, Wageningen University & Research, Wageningen, The Netherlands; Department of Biological Sciences and Institute for Environmental Studies<sup>5</sup>, Western Illinois University, Macomb, Illinois, USA; Plant-Microorganism Interaction Research Group<sup>6</sup>, Institute of Natural Resources and Agrobiología of Salamanca (IRNASA-CSIC), Salamanca, Spain

11.45-12.00

MOP-4

◆BALÁZS VAJNA<sup>1</sup>, DÁNIEL G. KNAPP<sup>2</sup>, GÁBOR M. KOVÁCS<sup>2</sup>

### ENDOPHYTIC PROKARYOTES OF DARK SEPTATE ENDOPHYTIC FUNGI REVEALED BY NGS METABARCODING

Department of Microbiology<sup>1</sup>; Department of Plant Anatomy<sup>2</sup>, Faculty of Science, Eötvös Loránd University, Budapest, Hungary



12.00-12.15

MOP-5

ERZSÉBET SÁNDOR<sup>1</sup>, ISTVÁN KOLLÁTH<sup>2</sup>, VIVIEN BÍRÓ<sup>2</sup>, ERZSÉBET FEKETE<sup>2</sup>, ♦LEVENTE KARAFFA<sup>2</sup>

**COPPER IONS MITIGATE MANGANESE(II) ION INHIBITION OF ITACONIC ACID PRODUCTION IN *ASPERGILLUS TERREUS* IN A CARBON SOURCE-DEPENDENT MANNER**

Department of Biochemical Engineering<sup>1</sup>, Faculty of Science and Technology; Institute of Food Science<sup>2</sup>, Faculty of Agricultural and Food Science and Environmental Management, University of Debrecen, Debrecen, Hungary

12.15-12.30

MOP-6

FRUZZINA PÉNZES, NORBERT ÁG, LEVENTE KARAFFA, VIKTÓRIA ÁG-RÁCZ, MICHEL FLIPPHI, ♦ERZSÉBET FEKETE

**PROLIFERATION OF INTERNALLY SYMMETRICAL STWINTRONS AND RELATED CANONICAL INTRONS IN HYPOXYLACEAE SPECIES**

Department of Biochemical Engineering, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary

**12.30-13.30 Lunch break**

**13.30-16.35 Mycology Poster Session**

Chairpersons: Attila Gácsér and István Pócsi

13.30-13.35

MPP-1

♦ZÓRA SZILOVICS<sup>1</sup>, ÉVA VERES<sup>1</sup>, KRISZTINA BUZÁS<sup>2,3</sup>, CSABA VÁGVÖLGYI<sup>1</sup>, ATTILA GÁCSE<sup>1,4</sup>

**THE EXAMINATION OF THE INTERACTION BETWEEN *CANDIDA* SPECIES AND ORAL PATHOGENIC BACTERIA ON THE LEVEL OF EXTRACELLULAR VESICLES**

Department of Microbiology<sup>1</sup>, Faculty of Science and Informatics; Faculty of Dentistry<sup>2</sup>, University of Szeged; Synthetic and System Biology Unit<sup>3</sup>, Biological Research Centre, Eötvös Loránd Research Network; HCEMM-USZ Fungal Pathogens Research Group<sup>4</sup>, Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

13.35-13.40

MPP-2

♦TAMÁS TAKÁCS<sup>1</sup>, TIBOR NÉMETH<sup>1</sup>, CSABA VÁGVÖLGYI<sup>1</sup>, DUNCAN WILSON<sup>2</sup>, ATTILA GÁCSE<sup>3,4</sup>

**INVESTIGATION OF THE PARTS OF ZINC HOMEOSTASIS IN THE HUMAN FUNGAL PATHOGEN *CANDIDA PARAPSILOSIS***

Department of Microbiology<sup>1</sup>, Interdisciplinary Excellence Centre, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary; College of Life and Environmental Sciences<sup>2</sup>, University of Exeter, Exeter, GB; HCEMM-USZ Fungal Pathogens Research Group<sup>3</sup>, MTA-SZTE "Lendület" "Mycobiome" Research Group<sup>4</sup>, Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

13.40-13.45

MPP-3

♦FLÓRA BOHNER<sup>1</sup>, CSABA GERGŐ PAPP<sup>1</sup>, RENÁTA TÓTH<sup>1</sup>, ATTILA GÁCSE<sup>2,3</sup>

**ACQUIRED TRIAZOLE RESISTANCE INFLUENCES VIRULENCE PROPERTIES OF *C. AURIS* MICROEVOLVED STRAINS IN MOUSE SYSTEMIC INFECTION MODEL**

Department of Microbiology<sup>1</sup>; MTA-SZTE "Lendület" "Mycobiome" Research Group<sup>2</sup>; HCEMM-USZ Fungal Pathogens Research Group<sup>3</sup>, Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

13.45-13.50

MPP-4

♦FLÓRA BOHNER<sup>1</sup>, CSABA GERGŐ PAPP<sup>1</sup>, RENÁTA TÓTH<sup>1</sup>, ATTILA GÁCSE<sup>2,3</sup>

**ACQUIRED TRIAZOLE RESISTANCE INFLUENCES VIRULENCE PROPERTIES OF *C. AURIS* MICROEVOLVED STRAINS IN MOUSE SYSTEMIC INFECTION MODEL**

Department of Microbiology<sup>1</sup>; MTA-SZTE "Lendület" "Mycobiome" Research Group<sup>2</sup>; HCEMM-USZ Fungal Pathogens Research Group<sup>3</sup>, Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary



13.50-13.55

MPP-5

◆CSABA NAGY-KÖTELES<sup>1</sup>, ZSIGMOND BENKŐ<sup>1</sup>, ISTVÁN PÓCSI<sup>1</sup>, ENDRE BARTA<sup>2</sup>

**CANDIDA ALBICANS ALLEL-SPECIFIC GENE PROMOTER ANALYSIS WITH CHIP-SEQ DATA**

Department of Molecular Biotechnology and Microbiology<sup>1</sup>; Department of Biochemistry and Molecular Biology<sup>2</sup>, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary

13.55-14.00

MPP-6

SANDUGASH İBRAGIMOVA

**DEVELOPMENT OF A NOVEL METHOD FOR GENETIC MODIFICATION OF *LICHTHEIMIA CORYMBIFERA***

Department of Microbiology, Institute of Biology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

14.00-14.05

MPP-7

◆KITTI BAUER<sup>1</sup>, CSILLA SZEKENYI<sup>1,2</sup>, SÁNDOR KISS<sup>1</sup>, BERNADETT VÁGÓ<sup>1</sup>, CSABA VÁGVÖLGYI<sup>1</sup>, TAMÁS PAPP<sup>1,2</sup>, GÁBOR NAGY<sup>1,2</sup>

**ROLE OF THE ERGOSTEROL BIOSYNTHESIS GENES IN THE AZOLE RESISTANCE OF *MUCOR CIRCINELLOIDES***

Department of Microbiology<sup>1</sup>; MTA-SZTE "Lendület" Fungal Pathogenicity Mechanisms Research Group<sup>2</sup>, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

14.05-14.10

MPP-8

◆OLIVÉR JÁGER, GÁBOR NAGY, MÓNICA VARGA, RITA SINKA, ÉVA KURUCZ, ISTVÁN ANDÓ, CSABA VÁGVÖLGYI, TAMÁS PAPP

**CHARACTERISATION OF SURVIVAL FACTOR GENES IN *MUCOR CIRCINELLOIDES***

Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

14.10-14.15

MPP-9

SÁNDOR KISS-VETRÁB, CSILLA SZEKENYI, BERNADETT VÁGÓ, RAKESH VARGHESE, KITTI BAUER, CSABA VÁGVÖLGYI, TAMÁS PAPP, ◆GÁBOR NAGY

**CHARACTERIZATION OF THE PLEIOTROPIC DRUG RESISTANCE TRANSPORTERS IN THE AZOLE RESISTANCE OF *MUCOR CIRCINELLOIDES***

Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

14.15-14.20

MPP-10

TÜNDE KARTALI<sup>1</sup>, ILDIKÓ NYILASI<sup>1</sup>, SÁNDOR KOCSUBÉ<sup>1,2</sup>, ROLAND PATAI<sup>3</sup>, TAMÁS F. POLGÁR<sup>3</sup>, LÁSZLÓ BODAI<sup>4</sup>, NÓRA ZSINDELY<sup>1</sup>, GÁBOR NAGY<sup>4</sup>, CSABA VÁGVÖLGYI<sup>1</sup>, ◆TAMÁS PAPP<sup>1,2</sup>

**DESCRIPTION OF FIVE NOVEL MYCOVIRUSES BELONGING TO THE TOTIVIRIDAE FAMILY IN FOUR DIFFERENT *MUCOR HIEMALIS* STRAIN**

Department of Microbiology<sup>1</sup>, Faculty of Science and Informatics; MTA-SZTE Fungal Pathogenicity Mechanisms Research Group<sup>2</sup>, Hungarian Academy of Sciences and Department of Microbiology, University of Szeged; Institute of Biophysics<sup>3</sup>, Biological Research Centre, Szeged Centre of Excellence of the European Union, Eötvös Loránd Research Network; Department of Biochemistry and Molecular Biology<sup>4</sup>, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary



14.20-14.25

MPP-11

◆CSILLA SZEBENYI<sup>1</sup>, MÓNIKA VIRÁGH-HOMA<sup>1</sup>, SÁNDOR KOCSUBÉ<sup>1</sup>, DOROTTYA SÁRA NAGY<sup>1</sup>, KARINA KISS<sup>1</sup>, YISOU GU<sup>2</sup>, ASHRAF S. IBRAHIM<sup>2</sup>, RITA SINKA<sup>3</sup>, ROLAND PATAI<sup>4</sup>, LÁSZLÓ BODAI<sup>5</sup>, GÁBOR NAGY<sup>5</sup>, CSABA VÁGVÖLGYI<sup>1</sup>, TAMÁS PAPP<sup>1</sup>, GÁBOR NAGY<sup>1</sup>

**CHARACTERIZATION OF NEW MEMBERS OF THE COTH KINASE PROTEIN FAMILY IN *MUCOR CIRCINELLOIDES***

Department of Microbiology<sup>1</sup>, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary; Los Angeles Biomedical Research Institute at Harbor-UCLA Medical Center<sup>2</sup>, Torrance, California, USA; Department of Genetics<sup>3</sup>, Faculty of Science and Informatics, University of Szeged; Laboratory of Neuronal Plasticity<sup>4</sup>, Molecular Neurobiology Research Unit, Institute of Biophysics, Biological Research Centre, Eötvös Loránd Research Network; Department of Biochemistry and Molecular Biology<sup>5</sup>, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

14.25-14.30

MPP-12

◆BETTINA VOLFFORD<sup>1</sup>, ZSANETT PAPP<sup>1</sup>, GÁBOR NAGY<sup>1,2</sup>, ALEXANDRA KOTOGÁN<sup>1</sup>, CSABA VÁGVÖLGYI<sup>1</sup>, TAMÁS PAPP<sup>1,2</sup>, MIKLÓS TAKÓ<sup>1</sup>

**PURIFICATION AND CHARACTERIZATION OF B-GALACTOSIDASE ENZYMES FROM *LICHTHEIMIA RAMOSA* AND *RHIZOMUCOR PUSILLUS***

Department of Microbiology<sup>1</sup>; MTA-SZTE "Lendület" Fungal Pathogenicity Mechanisms Research Group<sup>2</sup>, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

14.30-14.35

MPP-13

◆JUDIT ÁMON, ESZTER BOKOR, CSABA VÁGVÖLGYI, ZSUZSANNA HAMARI

**IN VITRO STUDY OF THE NEOFUNCTIONALIZATION OF THE NICOTINATE HYDROXYLASE H<sub>xn</sub>S, A PARALOGUE OF THE XANTHINE DEHYDROGENASE H<sub>x</sub>A**

Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

14.35-14.40

MPP-14

GABRIELLA IMOLA KASZA

**HMBA REGULATES NORMAL EXPRESSION OF THE ENDOCHITINASE CHIA**

Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

14.40-14.45

MPP-15

◆BEATRIX KOCSIS<sup>1</sup>, ÉVA LEITER<sup>1</sup>, ISTVÁN PÓCSI<sup>1</sup>, MI-KYUNG LEE<sup>2</sup>, JAE-HYUK YU<sup>2</sup>

**FUNCTIONAL ANALYSIS OF BZIP TRANSCRIPTION FACTORS IN *ASPERGILLUS NIDULANS***

Molecular Microbiology and Biotechnology<sup>1</sup>, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary; Department of Bacteriology<sup>2</sup>, University of Wisconsin, Madison, Wisconsin, USA

**14.45-15.15 Coffee break**

Chairpersons: Csaba Vágvölgyi and Tamás Emri

15.15-15.20

MPP-16

◆TAMÁS EMRI, VERONIKA GYÖRI, KRISZTIÁN PÁLL, BARNABÁS Cs. GILA, ISTVÁN PÓCSI

**ADAPTATION TO COMBINATORIAL IRON LIMITATION – OXIDATIVE STRESS IN *ASPERGILLUS* SPECIES**

Department of Molecular Biotechnology and Microbiology, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary





15.20-15.25

MPP-17

◆BARNABÁS CS. GILA<sup>1,2</sup>, PETRA A. JÓNÁS<sup>1</sup>, KÁROLY ANTAL<sup>3</sup>, ISTVÁN PÓCSI<sup>1</sup>, TAMÁS EMRI<sup>1</sup>

**TRANSCRIPTIONAL ACTIVITY OF SECONDARY METABOLITE CLUSTER GENES IN CARBON STRESSED *ASPERGILLUS FUMIGATUS* CULTURES**

Department of Molecular Microbiology and Biotechnology<sup>1</sup>; Doctoral School of Nutrition and Food Sciences<sup>2</sup>, Faculty of Science and Technology, University of Debrecen, Debrecen; Department of Zoology<sup>3</sup>, Eszterházy Károly Catholic University, Eger, Hungary

15.25-15.30

MPP-18

◆ANDRÁS SZEKERES, ADIYADOLGOR TURBAT, GÁBOR ENDRE, DÁVID RAKK, CSABA VÁGVÖLGYI

**DETERMINATION OF INDOLE-3-ACETIC ACID BIOSYNTHETIC PATHWAYS IN FUNGAL ENDOPHYTES**

Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

15.30-15.35

MPP-19

◆GÁBOR BENDE, ADORJÁN BENYA, LILIÁNA TÓTH, GÁBOR RÁKHELY, LÁSZLÓ GALGÓCZY

**POSSIBILITY TO NFAP2 *NEOSARTORYA (ASPERGILLUS) FISCHERI* ANTIFUNGAL PROTEIN 2 RESISTANCE DEVELOPMENT IN *CANDIDA ALBICANS***

Department of Biotechnology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

15.35-15.40

MPP-20

◆RAKESH VARGHESE, CSILLA SZEKENYI, TAMÁS PAPP, CSABA VÁGVÖLGYI, GÁBOR NAGY

**CHARACTERIZATION OF *rta1* GENES AND THEIR ROLE IN THE AZOLE RESISTANCE MECHANISM OF *MUCOR CIRCINELLOIDES***

Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

15.40-15.45

MPP-21

KRISTÓF BAGI<sup>1</sup>, CSABA VÁGVÖLGYI<sup>1</sup>, ◆MÓNICA VÖRÖS<sup>1</sup>, MÁRTON B. HÁZNAGY<sup>2</sup>, ATTILA HUNYADI<sup>2</sup>, MÁTÉ VÁGVÖLGYI<sup>2</sup>

**INVESTIGATION OF THE ANTIMICROBIAL EFFECT OF ECDYSTEROID COMPOUNDS**

Department of Microbiology<sup>1</sup>, Faculty of Science and Informatics; Institute of Pharmacognosy<sup>2</sup>, Faculty of Pharmacy, University of Szeged, Szeged, Hungary

15.45-15.50

MPP-22

◆ÁDÁM NOVÁK<sup>1,2</sup>, ERIK ZAJTA<sup>1,2</sup>, MÁTÉ CSIKÓS<sup>1,2</sup>, EMESE HALMOS<sup>1,2</sup>, CSABA VÁGVÖLGYI<sup>1</sup>, ATTILA GÁCSER<sup>1,2,3</sup>

**INVESTIGATION OF THE INTERACTION OF KERATINOCYTES AND *CANDIDA* SPECIES**

Department of Microbiology<sup>1</sup>; MTA-SZTE "Lendület" "Mycobiome" Research Group<sup>2</sup>; HCEMM-USZ Fungal Pathogens Research Groups<sup>3</sup>, Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

15.50-15.55

MPP-23

◆BALÁZS SZÜCS<sup>1</sup>, MÁTÉ VADOVICS<sup>1</sup>, MÁRTON HORVÁTH<sup>1</sup>, RÓBERT ALFÖLDI<sup>2</sup>, LÁSZLÓ TISZLAVICZ<sup>3</sup>, LÁSZLÓ PUSKÁS<sup>2</sup>, ATTILA GÁCSER<sup>4,5</sup>

**THE EFFECTS OF *CANDIDA ALBICANS* ON THE PROGRESSION OF ORAL SQUAMOUS CELL CARCINOMA USING IN VIVO MICE MODEL**

Department of Microbiology<sup>1</sup>, Faculty of Science and Informatics, University of Szeged; AstridBio Technologies Ltd.<sup>2</sup>; Department of Pathology<sup>3</sup>, Faculty of Medicine, University of Szeged; MTA-SZTE "Lendület" "Mycobiome" Research Group<sup>4</sup>; HCEMM-USZ Fungal Pathogens Research Group<sup>5</sup>, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary



15.55-16.00

MPP-24

◆ILONA PFEIFFER, BETTINA SZERENCSE, RICHÁRD MERBER, ANDOR KANYÓ, CSABA VÁGVÖLGYI

**CHARACTERISATION OF THE *CITEROMYCES MATRITENSIS*-PRODUCED KILLER TOXIN**

Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

16.00-16.05

MPP-25

◆PÉTER JÁNOS BEREK-NAGY<sup>1,2</sup>, GERGŐ TÓTH<sup>3</sup>, IMRE BOLDIZSÁR<sup>1</sup>, MÁRTA KRASZNI<sup>3</sup>, DÁNIEL G. KNAPP<sup>1</sup>, GALIYA AKHMETOVA<sup>1</sup>, GÁBOR M. KOVÁCS<sup>1</sup>

**NATURAL PRODUCTS OF THE ROOT ENDOPHYTIC FUNGUS *DARKSIDEA ALPHA***

Department of Plant Anatomy<sup>1</sup>, Institute of Biology, Faculty of Science, ELTE-Eötvös Loránd University; National Public Health Center<sup>2</sup>; Department of Pharmaceutical Chemistry<sup>3</sup>, Faculty of Pharmacy, Semmelweis University, Budapest, Hungary

16.05-16.10

MPP-26

◆SÁNDOR CSIKOS<sup>1</sup>, GERGŐ TÓTH<sup>2</sup>, DÁNIEL G. KNAPP<sup>1</sup>, IMRE BOLDIZSÁR<sup>1</sup>, GÁBOR M. KOVÁCS<sup>1</sup>

**SECONDARY METABOLITES OF *CADOPHORA* AND *PERICONIA* GRASS ROOT ENDOPHYTIC FUNGI**

Department of Plant Anatomy<sup>1</sup>, Institute of Biology, Faculty of Science, ELTE-Eötvös Loránd University; Department of Pharmaceutical Chemistry<sup>2</sup>, Faculty of Pharmacy, Semmelweis University, Budapest, Hungary

16.10-16.15

MPP-27

◆ANNA MOLNÁR<sup>1</sup>, DÁNIEL G. KNAPP<sup>2</sup>, GERGŐ TÓTH<sup>2,3</sup>, IMRE BOLDIZSÁR<sup>2</sup>, KÁLMÁN ZOLTÁN VÁCZY<sup>1</sup>, GÁBOR M. KOVÁCS<sup>2</sup>

***ALTERNARIA* SPECIES AND THEIR SECONDARY METABOLITES IN GRAPEVINE (*VITIS VINIFERA*) SHOOTS**

Food and Wine Research Institute<sup>1</sup>, Centre for Research and Development, Eszterházy Károly Catholic University, Eger; Department of Plant Anatomy<sup>2</sup>, Institute of Biology, Faculty of Science, ELTE-Eötvös Loránd University; Department of Pharmaceutical Chemistry<sup>3</sup>, Faculty of Pharmacy, Semmelweis University, Budapest, Hungary

16.15-16.20

MPP-28

◆TORDA VARGA<sup>1</sup>, KABIR G. PEAY<sup>2</sup>, LÁSZLÓ G. NAGY<sup>1</sup>

**GENOME-BASED FUNCTIONAL CATEGORIZATION OF ECTOMYCORRHIZAL FUNGI**

Biochemistry Institute<sup>1</sup>, Biological Research Center, Eötvös Loránd Research Network, Szeged, Hungary; Department of Biology<sup>2</sup>, Stanford University, Stanford, California, USA

16.20-16.25

MPP-29

◆ENIKŐ HORVÁTH<sup>1</sup>, WALTER P. PFLIEGLER<sup>1</sup>, KADMIEL PEREIRA<sup>1</sup>, CINTIA ADÁCSI<sup>2</sup>, TÜNDE PUSZTAHELYI<sup>2</sup>, ISTVÁN PÓCSI<sup>1</sup>

**IDENTIFICATION AND COMMUNITY ANALYSIS OF YEASTS IN HUNGARIAN SILAGE SAMPLES**

Department of Biotechnology and Microbiology<sup>1</sup>, Faculty of Science and Technology; Central Laboratory<sup>2</sup>, Faculty of Agricultural and Food Sciences and Environmental Management, University of Debrecen, Debrecen, Hungary



16.25-16.30

MPP-30

◆ZSOLT SPITZMÜLLER<sup>1</sup>, XÉNIA KARÁCSONY-PÁLFI<sup>1</sup>, ALEXANDRA PINTYE<sup>2</sup>, ORSOLYA MOLNÁR<sup>2</sup>, MÁRK Z. NÉMETH<sup>2</sup>, LEVENTE KISS<sup>2,3</sup>, GÁBOR M. KOVÁCS<sup>2,4</sup>, KÁLMÁN Z. VÁCZY<sup>1</sup>

**INVESTIGATION OF DMI-FUNGICIDES RESISTANCE IN GRAPE POWDERY MILDEW (*ERYSIPHE NECTOR*) POPULATIONS IN HUNGARY**

Food and Wine Research Institute<sup>1</sup>, Eszterházy Károly Catholic University, Eger; Plant Protection Institute<sup>2</sup>, Centre for Agricultural Research, Eötvös Loránd Research Network, Budapest, Hungary; Centre for Crop Health<sup>3</sup>, University of Southern Queensland, Toowoomba, Queensland, Australia; Department of Plant Anatomy<sup>4</sup>, Institute of Biology, Faculty of Science, ELTE-Eötvös Loránd University, Budapest, Hungary

16.30-16.35

MPP-31

◆FRUZSINA PÉNZES, NORBERT ÁG, LEVENTE KARAFFA, VIKTÓRIA ÁG-RÁCZ, MICHEL FLIPPHI, ERZSÉBET FEKETE

**COMPARATIVE AND STATISTICAL ANALYSIS OF 100 STWINTRONS FOUND IN AN *HYPOXYLON* GENOME**

Department of Biochemical Engineering, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary

**16.35-17.00 Coffee break**

**17.00-18.00 Round Table Discussion - Current Trends in Microbial Omics and Compass for Young Researchers**

Convener and organizer: ATTILA SZABÓ, ISME Ambassador of Hungary

More than a decade ago the advent of laboratory scale high-throughput techniques revolutionized the fields of molecular biology, genetics and microbiology. This progress is going on, since every few years new discoveries and inventive technical solutions advance the previous ones. During the open roundtable discussion, experts and non-experts can share their knowledge and experiences, thoughts. Some questions on the most exciting topics of present-day microbial omics:

- Could single-molecule DNA sequencing platforms yielding long reads replace the current market leader short-read based sequencing techniques within the upcoming five years?
- Is it really beneficial to combine different omics techniques (e.g. genomics, transcriptomics and proteomics) to study the same object?
- What is the future of marker-gene amplicon sequencing? Could it be superseded by the more and more affordable shot-gun metagenomic method?
- Could genome resolved metagenomics be used instead of traditional cultivation efforts for taxon description? What are the advantages of genome submission for newly described species?
- What could be the cause behind the observed universal genetic boundary among microbial species (ANI 83 to 95)?
- Is there an inconceivable microbial diversity on the planet or are we just still generating technical artefacts?

In the last part of the session we would like to aid young researchers how to get more involved in microbial omics techniques and in the analysis of data obtained. Useful experiences, tips will be shared, how and where to start and scholarship possibilities for future learning.

**19.00- CEFORM Reception – Hotel Aranyhomok Restaurant**

Lined area for writing, consisting of approximately 18 horizontal lines.

Thursday, October 14

Lecture Hall

**9.30-11.00**    **Ádám Kondorosi Environmental Microbiology Session**

**Kondorosi, Ádám** (1946-2011), Széchenyi-prize decorated Hungarian microbiologist, member of the Hungarian Academy of Sciences. He obtained Biology masters' degree at Eötvös Loránd University in 1969, and started his researcher carrier at the Biological Research Center of The Hungarian Academy of Sciences in Szeged. His scientific field of interest was the biology of nitrogen fixation, and the analysis of the crosstalk between bacteria and the plant cells in the root nodule. Together with his fellow researchers first published the „Circular Linkage Map of *Rhizobium meliloti* Chromosome”. In 1989, he had been invited to act as the director of the CNRS Plant Science Institute in Gif-sur-Yvette (France). He had been decorated by the Max-Planck-Award, the C. Finlay-Award (UNESCO) among others.

Chairpersons: Gábor M. Kovács and Tamás Felföldi

9.30-10.00

EMO-1

◆JÓZSEF GEML<sup>1</sup>, ARNOLD BETSY<sup>2</sup>, FRANCOIS LUTZON<sup>3</sup>

**COMMUNITY DYNAMICS OF SOIL-BORNE FUNGAL COMMUNITIES ALONG ELEVATION GRADIENTS IN NEOTROPICAL AND PALEOTROPICAL FORESTS**

MTA-EKKE Lendület Environmental Microbiome Research Group<sup>1</sup>, Eszterházy Károly Catholic University, Eger, Hungary; Department of Ecology and Evolutionary Biology<sup>2</sup>, University of Arizona, Tucson, USA; Department of Biology<sup>3</sup>, Duke University, Durham; GB

10.00-10.15

EMO-2

◆BALÁZS VAJNA<sup>1</sup>, DÁNIEL G. KNAPP<sup>2</sup>, BÁLINT DIMA<sup>2</sup>, ZOLTÁN SZALAI<sup>3,4</sup>, GYÖRGY KRÖEL-DULAY<sup>5</sup>, GÁBOR M. KOVÁCS<sup>2</sup>

**EFFECT OF A CLIMATE MANIPULATION ON SOIL MICROBIAL COMMUNITIES IN A SANDY GRASSLAND**

Department of Microbiology<sup>1</sup>; Department of Plant Anatomy<sup>2</sup>; Department of Environmental and Landscape Geography<sup>3</sup>, Faculty of Science, Eötvös Loránd University; Research Centre for Astronomy and Earth Sciences, <sup>4</sup> Budapest; Institute of Ecology and Botany<sup>5</sup>, Centre for Ecological Research, Eötvös Loránd Research Network, Vácrátót, Hungary

10.15-10.30

EMO-3

◆ANDRÁS TÁNCICS<sup>1</sup>, SINCHAN BANERJEE<sup>1</sup>, ANDRÉ RODRIGUES SOARES<sup>2</sup>, ALEXANDER PROBST<sup>2</sup>, BALÁZS KRISZT<sup>3</sup>

**MICROAEROBIC DEGRADATION OF XYLENE: AN ENRICHMENT APPROACH COUPLED WITH GENOME-RESOLVED METAGENOMICS**

Department of Molecular Ecology<sup>1</sup>, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary; Aquatic Microbial Ecology<sup>2</sup>, University of Duisburg-Essen, Essen, Germany; Department of Environmental Safety<sup>3</sup>, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary

10.30-10.45

EMO-4

◆ROLAND WIRTH<sup>1</sup>, BERNADETT PAP<sup>1</sup>, DÉNES DUDITS<sup>1</sup>, BALÁZS KAKUK<sup>2</sup>, ZOLTÁN BAGI<sup>2</sup>, PRATEEK SHETTY<sup>1</sup>, KORNÉL L. KOVÁCS<sup>2,3</sup>, GERGELY MARÓTI<sup>1,4</sup>

**GENOME-CENTRIC INVESTIGATION OF ANAEROBIC DIGESTION USING SUSTAINABLE SECOND AND THIRD GENERATION SUBSTRATES**

Institute of Plant Biology<sup>1</sup>, Biological Research Centre, Eötvös Loránd Research Network; Department of Biotechnology<sup>2</sup>, Faculty of Science and Informatics; Department of Oral Biology and Experimental Dental Research<sup>3</sup>, Faculty of Dentistry, University of Szeged, Szeged; Faculty of Water Sciences<sup>4</sup>, University of Public Service, Baja, Hungary





10.45-11.00

EMO-5

◆GORKHMAZ ABBASZADE<sup>1,2</sup>, MARWENE TOUMI<sup>1</sup>, RÓZSA FARKAS<sup>1</sup>, KÁROLY BÓKA<sup>3</sup>, CSABA SZABÓ<sup>2</sup>, ERIKA TÓTH<sup>1</sup>

**HEAVY METAL(LOID) BIOMINERALIZATION THROUGH MICROBIAL ACTIVITYT**

Department of Microbiology<sup>1</sup>; Lithosphere Fluid Research Laboratory<sup>2</sup>; Department of Plant Anatomy<sup>3</sup>, Faculty of Science, ELTE-Eötvös Loránd University, Budapest, Hungary

**11.00-11.30 Coffee break**

**11.30-12.30 Károly Rauss Bacteriology Session**

Rauss, Károly (1905-1976), medical doctor, microbiologist founder professor of the Microbiology Institute of University of Pécs, member of the German National Academy of Sciences Leopoldina, founder of the Hungarian Society for Microbiology. His main scientific activity escalated for all aspects of enteric bacteria including their taxonomy, antigen structures and virulence properties. Prof Rauss and his colleagues developed and successfully applied several vaccines.

Chairpersons: György Schneider and Orsolya Dobay

11.30-11.45

BOP-1

◆DOMONKOS SVÁB<sup>1</sup>, LINDA FALGENHAUER<sup>2</sup>, TÜNDE MAG<sup>3</sup>, TRINAD CHAKRABORTY<sup>4</sup>, ISTVÁN TÓTH<sup>1</sup>

**GENOMIC CHARACTERISATION OF ENTEROHEMORRHAGIC, SHIGA-TOXIN PRODUCING AND ENTEROPATHOGENIC *ESCHERICHIA COLI* ISOLATED FROM BOVINE AND HUMAN SOURCES IN HUNGARY**

Enteric bacteriology and alimentary zoonoses<sup>1</sup>, Veterinary Medical Research Institute, Budapest, Hungary; Institute of Hygiene and Environmental Medicine and German Center for Infection Research (DZIF)<sup>2</sup>, Partner Site Giessen-Marburg-Langen, Giessen, Justus Liebig University Giessen, Germany; Department of Bacteriology<sup>3</sup>, Mycology and Parasitology Division of Microbiological Reference Laboratories, National Public Health Center, Budapest, Hungary; Institute of Medical Microbiology<sup>4</sup>, and German Center for Infection Research (DZIF), Partner Site Giessen-Marburg-Langen, Giessen, Justus Liebig University Giessen, Giessen, Germany

11.45-12.00

BOP-2

◆JUDIT SAHIN-TÓTH<sup>1</sup>, ERVIN ALBERT<sup>2</sup>, ALEXANDRA JUHÁSZ<sup>1</sup>, ÁGOSTON GHIDÁN<sup>1</sup>, JÁNOS JUHÁSZ<sup>1,3</sup>, ANDREA HORVÁTH<sup>1</sup>, ORSOLYA DOBAY<sup>1</sup>

**CARRIAGE OF *STAPHYLOCOCCUS AUREUS* IN WILD HEDGEHOGS (*ERINACEUS EUROPAEUS*) IN HUNGARY AND FIRST DETECTION OF MECC-MRSA IN THE COUNTRY**

Institute of Medical Microbiology<sup>1</sup>, Faculty of Medicine, Semmelweis University, Budapest; Department of Pathology<sup>2</sup>, University of Veterinary Medicine, Üllő; Faculty of Information Technology and Bionics<sup>3</sup>, Pázmány Péter Catholic University, Budapest, Hungary

12.00-12.15

BOP-3

◆JÓZSEF BÁLINT NAGY<sup>1</sup>, BALÁZS KOLESZÁR<sup>1</sup>, BENCE BALÁZS<sup>2</sup>, KATALIN KRISTÓF<sup>3</sup>, GÁBOR KARDOS<sup>2</sup>

**INVESTIGATING THE PREVALENCE OF MULTIRESTANT ENTEROBACTERIALES IN BLACK-HEADED GULLS (*CHROICOCEPHALUS RIDIBUNDUS*) AND A COMPARISON WITH CONTEMPORARY HUMAN ISOLATES**

Department of Medical Microbiology<sup>1</sup>; Department of Metagenomics<sup>2</sup>, Faculty of Medicine, University of Debrecen, Debrecen; Institute of Laboratory Medicine<sup>3</sup>, Faculty of Medicine, Semmelweis University, Budapest, Hungary

12.15-12.30

BOP-4

◆BÁLINT TIMMER<sup>1</sup>, BENCE BALÁZS<sup>2</sup>, JÓZSEF BÁLINT NAGY<sup>1</sup>, RITA SÁRKÓZI<sup>3</sup>, ATTILA KÁLMÁN<sup>4</sup>, GÁBOR KARDOS<sup>2</sup>

**ANTIBIOTIC RESISTANCE IN THE FOOD CHAIN: EXTENDED SPECTRUM B-LACTAMASE PRODUCING BACTERIA FROM A DOMESTIC PIG HOLDING AND FROM CONTEMPORARY HUMAN ISOLATES**

Department of Medical Microbiology<sup>1</sup>; Department of Metagenomics<sup>2</sup>, Faculty of Medicine, University of Debrecen, Debrecen; Private veterinarian<sup>3</sup>; Pig installation<sup>4</sup>, Hage Ltd., Hajdúszoboszló, Hungary



**12.30-13.30 Lunch break**

**13.30-14.30 Károly Rauss Bacteriology Session**

13.30-13.45

BOP-5

♦TAMÁS KOVÁCS<sup>1,2</sup>, DOMINIKA BALI<sup>1</sup>, ÁGNES SOLTI-HODOVÁN<sup>1</sup>, ALEKSA OBRADOVIĆ<sup>3</sup>, KATARINA GAŠIĆ<sup>4</sup>, EMILIO STEFANI<sup>5</sup>, IREM ALTIN<sup>5</sup>, CHELAPPAN GOPALAKRISHNAN<sup>6</sup>, LARS FIESELER<sup>7</sup>, SZABOLCS RAVASZ<sup>2</sup>, GÁBOR RÁKHELY<sup>8</sup>

**BACTERIOPHAGE-BASED BIOCONTROL AGAINST PLANT PATHOGENIC BACTERIA**

Biotechnology<sup>1</sup>, Enviroinvest Corp.; Biopesticide Ltd.<sup>2</sup>, Pécs, Hungary; Plant Pathology Department<sup>3</sup>, Faculty of Agriculture, University of Belgrade, Belgrade-Zemun; Institute for Plant Protection and Environment<sup>4</sup>, Belgrade, Serbia; Departments of Life Sciences<sup>5</sup>, University of Modena and Reggio Emilia, Reggio Emilia, Italy; Department of Plant Pathology<sup>6</sup>, Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, India; Centre for Food Safety and Quality Management<sup>7</sup>, ZHAW School of Life Sciences and Facility Management, Wädenswil, Switzerland; Department of Biotechnology<sup>8</sup>, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

13.45-14.00

BOP-6

♦BOTOND ZSOMBOR PERTICS, GYÖRGY SCHNEIDER

**IDENTIFICATION OF THE POLYSACCHARIDE DEPOLYMERASE OF PHAGE B1, SPECIFIC FOR THE K2 CAPSULAR TYPE OF *KLEBSIELLA PNEUMONIAE***

Department of Medical Microbiology and Immunology, Medical School, University of Pécs, Pécs, Hungary

14.00-14.15

BOP-7

BAKHTIYAR MAHMOOD, KATALIN BURIÁN, ELISABETH NAGY, ♦JÓZSEF SÓKI

**EXAMINATION OF THE ANTIBIOTIC RESISTANCE MECHANISMS OF A MULTIDRUG-RESISTANT *PHOCAEICOLA (BACTEROIDES) VULGATUS* ISOLATE AND THE ROLE OF A NOVEL B-LACATAMASE GENE ON IMPENEM RESISTANCE IN *BACTEROIDES* ISOLATES**

Institute of Medical Microbiology, Faculty of Medicine, University of Szeged, Szeged, Hungary

14.15-14.30

BOP-8

♦ANDREA TUMPA<sup>1</sup>, BRANKA ŠEOL MARTINEC<sup>2</sup>, ZRINKA ŠTRITOF<sup>2</sup>, SELMA PINTARIC<sup>2</sup>

**COMPARISON OF SPECIES-SPECIFIC MULTIPLEX PCR AND API 20 STREP FOR THE IDENTIFICATION OF VETERINARY CLINICAL *ENTEROCOCCUS* ISOLATES**

Department of Chemistry and Biochemistry<sup>1</sup>; Department of Microbiology and Infectious Diseases with Clinic<sup>2</sup>, Faculty of Veterinary Medicine, University of Zagreb, Zagreb, Croatia

**14.30-15.00 Coffee break**

**15.00-16.30 Ádám Kondorosi Environmental Microbiology Session**

Chairpersons: Károly Márialigeti and András Táncsics

15.00-15.15

EMO-6

♦MILÁN FARKAS<sup>1</sup>, EDIT KASZAB<sup>1</sup>, JÚLIA RADÓ<sup>1</sup>, JUDIT HÁHN<sup>1</sup>, GERGŐ TÓTH<sup>1</sup>, PÉTER HARKAI<sup>1</sup>, ÁRPÁD FERINCZ<sup>1</sup>, ZSÓFIA LOVÁSZ<sup>2</sup>, ANDRÁS TÁNCICS<sup>1</sup>, LAJOS VÖRÖS<sup>3</sup>, BALÁZS KRISZT<sup>1</sup>, SÁNDOR SZOBOSZLAY<sup>1</sup>

**SEASONAL BACTERIAL VARIABILITY OF THE LAKE BALATON AND KIS-BALATON WATER PROTECTION SYSTEM**

Institute of Aquaculture and Environmental Safety<sup>1</sup>, Hungarian University of Agriculture and Life Sciences, Gödöllő; Department Kis-Balaton<sup>2</sup>, West-transdanubian Water Directorate, Keszthely; Balaton Limnological Research Institute<sup>3</sup>, Tihany, Hungary



15.15-15.30

EMO-7

◆MARSEJ MARKOVSKI<sup>1</sup>, MARINO KORLEVIĆ<sup>1</sup>, GERHARD J. HERNDL<sup>2,3,4</sup>, MIRJANA NAJDEK<sup>1</sup>

**DYNAMICS OF SEDIMENT MICROBIAL COMMUNITIES DURING A SEAGRASS MEADOW DECLINE**

Center for Marine Research<sup>1</sup>, Ruđer Bošković Institute, Rovinj, Croatia; Department of Functional and Evolutionary Ecology<sup>2</sup>, University of Vienna, Vienna, Austria; Department of Marine Microbiology and Biogeochemistry<sup>3</sup>, Royal Netherlands Institute for Sea Research (NIOZ), Utrecht University, Den Burg, The Netherlands; Vienna Metabolomics Centre<sup>4</sup>, University of Vienna, Vienna, Austria

15.30-15.45

EMO-8

◆ATTILA SZABÓ<sup>1,2</sup>, ZSUZSANNA MÁRTON<sup>3</sup>, BIANKA CSITÁRI<sup>3</sup>, EMIL BOROS<sup>1</sup>, MORITZ BUCK<sup>2</sup>, ALEXANDER EILER<sup>4</sup>, STEFAN BERTILSSON<sup>2</sup>, TAMÁS FELFÖLDI<sup>1,3</sup>, ANNA J. SZÉKELY<sup>2</sup>

**GETTING SALTY: THE EFFECT OF SALINITY AND WATER CHEMICAL TYPES ON BACTERIAL COMMUNITY COMPOSITION BASED ON GLOBAL DATA**

Institute of Aquatic Ecology<sup>1</sup>, Centre for Ecological Research, Eötvös Loránd Research Network, Budapest, Hungary; Department of Aquatic Sciences and Assessment<sup>2</sup>, Swedish University of Agricultural Sciences (SLU), Uppsala, Sweden; Department of Microbiology<sup>3</sup>, Faculty of Science, ELTE-Eötvös Loránd University, Budapest, Hungary; Department of Biosciences<sup>4</sup>, University of Oslo, Oslo, Norway

15.45-16.00

EMO-9

◆KRISTÓF KORPONAI<sup>1</sup>, ATTILA SZABÓ<sup>1</sup>, SÁRA SZURÓCZKI<sup>1</sup>, BOGLÁRKA SOMOGYI<sup>2</sup>, NÓRA SZABÓ-TUGYI<sup>2</sup>, KÁROLY MÁRIALIGETI<sup>1</sup>, TAMÁS FELFÖLDI<sup>1</sup>

**SPATIAL, TEMPORAL AND VEGETATIONAL EFFECT ON BACTERIAL AND ARCHAEAL PLANKTONIC COMMUNITIES**

Department of Microbiology<sup>1</sup>, Faculty of Science, ELTE-Eötvös Loránd University, Budapest; Balaton Limnological Research Institute<sup>2</sup>, Eötvös Loránd Research Network, Tihany, Hungary

16.00-16.15

EMO-10

◆TAMÁS FELFÖLDI<sup>1,2</sup>, ANNA BEDICS<sup>2</sup>, BIANKA CSITÁRI<sup>2</sup>, EMIL BOROS<sup>1</sup>, ISTVÁN MÁTHÉ<sup>3</sup>, ANNA J. SZÉKELY<sup>4</sup>

**TYPE OF ANION DETERMINES THE SALT TOLERANCE OF BACTERIA IN SALINE LAKES**

Institute of Aquatic Ecology<sup>1</sup>, Centre for Ecological Research, Tihany; Department of Microbiology<sup>2</sup>, Faculty of Science, ELTE-Eötvös Loránd University, Budapest, Hungary; Department of Bioengineering<sup>3</sup>, Sapientia Hungarian University of Transylvania, Miercurea Ciuc, Romania; Department of Ecology and Genetics/Limnology<sup>4</sup>, Uppsala University EBC, Uppsala, Sweden

16.15-16.30

EMO-11

◆MARWENE TOUMI<sup>1</sup>, RÓZSA FARKAS<sup>1</sup>, ISTVÁN MÁTHÉ<sup>2</sup>, ÁDÁM TÓTH<sup>3</sup>, ERIKA TÓTH<sup>1</sup>

**MOLECULAR STUDIES TO REVEAL THE MICROBIAL COMMUNITIES OF OLIGOTROPHIC ENVIRONMENTS**

Department of Microbiology<sup>1</sup>, Faculty of Science, ELTE-Eötvös Loránd University, Budapest, Hungary; Socio-human Sciences and Engineering<sup>2</sup>, Sapientia Hungarian University of Transylvania, Csíkszereda, Romania; József & Erzsébet Tóth Endowed Hydrogeology Chair<sup>3</sup>, Department of Geology, Faculty of Science, ELTE-Eötvös Loránd University, Budapest, Hungary

16.30-16.45

ASM

ATTILA GÁCSEK

**ASM MEMBERSHIP AND ITS BENEFITS**

ASM Ambassador at the Hungarian Society for Microbiology

19.00-

**CEFORM Reception – Hotel Aranyhomok - Restaurant**



**Thursday, October 14**

Poster Hall

**9.00-10.40 Agricultural Microbiology Poster Session**

Chairpersons: László Kredics and Balázs Vajna

9.00-9.05

AMP-1

◆CINTIA ADÁCSI<sup>1</sup>, TÜNDE PUSZTAHELYI<sup>2</sup>, SZILVIA KOVÁCS<sup>2</sup>

**MYCOTOXIN RESISTANCE AND ELIMINATION CAPABILITY OF *KLEBSIELLA PNEUMONIAE***

Doctoral School of Nutrition and Food Sciences<sup>1</sup>; Central Laboratory of Agricultural and Food Products<sup>2</sup>, Faculty of Agricultural and Food Sciences and Environmental Management, University of Debrecen, Debrecen, Hungary

9.05-9.10

AMP-2

◆HENRIETTA ALLAGA<sup>1</sup>, ANUAR R. ZHUMAKAYEV<sup>1</sup>, RITA BÜCHNER<sup>1</sup>, SÁNDOR KOCSUBÉ<sup>2</sup>, ATTILA SZÜCS<sup>2</sup>, LÁSZLÓ KREDICS<sup>2</sup>, CSABA VÁGVÖLGYI<sup>2</sup>, LÓRÁNT HATVANI<sup>2</sup>

**MEMBERS OF THE *TRICHODERMA HARZIANUM* SPECIES COMPLEX AS THE CAUSAL AGENTS OF MUSHROOM GREEN MOULD**

Doctoral School of Biology<sup>1</sup>; Department of Microbiology<sup>2</sup>, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

9.10-9.15

AMP-3

◆HENRIETTA ALLAGA<sup>1</sup>, DÓRA HORKICS<sup>2</sup>, ÁDÁM BORDÉ<sup>2</sup>, ANDRÁS VARGA<sup>2</sup>, TAMÁS MARIK<sup>2</sup>, JUDIT BAJZÁT<sup>3</sup>, NÓRA BAKOS-BARCZI<sup>3</sup>, CSABA NAGY-KÖTELES<sup>3</sup>, CSABA CSUTORÁS<sup>3</sup>, LÓRÁNT HATVANI<sup>2</sup>, LÁSZLÓ KREDICS<sup>2</sup>, CSABA VÁGVÖLGYI<sup>2</sup>

**ECOPHYSIOLOGICAL CHARACTERIZATION OF *BACILLUS* STRAINS ISOLATED FROM RECYCLED SPENT MUSHROOM COMPOST**

Doctoral School of Biology<sup>1</sup>; Department of Microbiology<sup>2</sup>, Faculty of Science and Informatics, University of Szeged, Szeged; ÚjChampignons Ltd.<sup>3</sup>, Budapest, Hungary

9.15-9.20

AMP-4

◆VERONIKA BODNÁR, WALTER P. PFLIEGLER, SZILVIA KOVÁCS, ZSOLT VARGA, TÜNDE PUSZTAHELYI, ISTVÁN PÓCSI

**PHYLOGENOMIC ANALYSIS ON THE GLOBAL DIVERSITY OF THE MYCOTOXINOGENIC *ASPERGILLUS FLAVUS***

Department of Molecular Biotechnology and Microbiology, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary

9.20-9.25

AMP-5

◆ADRIENN GEIGER<sup>1</sup>, ZOLTÁN KARÁCSONYI<sup>1</sup>, RICHARD GOLEN<sup>1</sup>, KÁLMÁN ZOLTÁN VÁCZY<sup>1</sup>, JÓZSEF GEML<sup>2</sup>

**THE COMPOSITIONAL TURNOVER OF GRAPEVINE-ASSOCIATED PLANT PATHOGENIC FUNGAL COMMUNITIES ARE GREATER AMONG INTRAINDIVIDUAL MICROHABITATS THAN AMONG HEALTHY AND ESCA-DISEASED PLANTS**

Institute of Food Sciences<sup>1</sup>; MTA-EKKE Lendület Environmental Microbiome Research Group<sup>2</sup>, Eszterházy Károly Catholic University, Eger, Hungary





9.25-9.30

AMP-6

◆LÁSZLÓ KREDICS<sup>1</sup>, VIKTOR DÁVID NAGY<sup>1</sup>, ADRIENN SZARVAS<sup>2</sup>, ANUAR R. ASHRAFAYEV<sup>1</sup>, MÓNKA VÖRÖS<sup>1</sup>, MÓNKA VARGA<sup>1</sup>, ANDRÁS SZEKERES<sup>1</sup>, LÓRÁNT HATVANI<sup>1</sup>, ÁDÁM BORDÉ<sup>1,2</sup>, FERENC LANTOS<sup>2</sup>, CSABA VÁGVÖLGYI<sup>1</sup>, TAMÁS MONOSTORI<sup>2</sup>

**A COMPOSITE MICROBIAL FORMULATION FOR AGRICULTURE AND ITS PERFORMANCE IN SWEET POTATO CULTIVATION**

Department of Microbiology<sup>1</sup>, Faculty of Science and Informatics, Szeged; Institute of Plant Sciences and Environmental Protection<sup>2</sup>, Faculty of Agriculture, University of Szeged, Hódmezővásárhely, Hungary

9.30-9.35

AMP-7

◆LÁSZLÓ KREDICS<sup>1</sup>, TAMÁS MARIK<sup>1</sup>, DÓRA BALÁZS<sup>1</sup>, CHETNA TYAGI<sup>1</sup>, DÁVID RÓZSA<sup>1</sup>, ÁGNES SZEPESI<sup>2</sup>, LÁSZLÓ BAKACSY<sup>2</sup>, CSABA VÁGVÖLGYI<sup>1</sup>, MÓNKA VARGA<sup>1</sup>, ANDRÁS SZEKERES<sup>1</sup>

**EFFECT OF *TRICHODERMA* PEPTAIBOLS ON THE YIELD OF CULTIVATED TOMATO**

Department of Microbiology<sup>1</sup>; Department of Plant Biology<sup>2</sup>, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

9.35-9.40

AMP-8

◆ZOLTÁN MAYER, VIKTOR SZENTPÉTERI, BEATRIX PETHÓNÉ RÉTHÁTI, ÁKOS JUHÁSZ, KATALIN POSTA

**CHANGE IN MICROBIOME OF BLACK LOCUST AND POPLAR RHIZOSPHERE UNDER MYCORRHIZA AND INORGANIC FERTILIZER APPLICATION**

Department of Microbiology and Applied Biotechnology, Institute of Genetics and Biotechnology, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary

9.40-9.45

AMP-9

◆MELINDA MEGYES<sup>1</sup>, ANDREA K. BORSODI<sup>1</sup>, TAMÁS ÁRENDÁS<sup>2</sup>, KÁROLY MÁRIALIGETI<sup>1</sup>

**INFLUENCE OF FERTILIZERS AND CROPS ON SOIL BACTERIAL DIVERSITY IN LONG-TERM MAIZE AND WHEAT CROPPING SYSTEMS**

Department of Microbiology<sup>1</sup>, Faculty of Science, ELTE-Eötvös Loránd University, Budapest; Crop Production Department<sup>2</sup>, Agricultural Institute, Centre for Agricultural Research, Eötvös Loránd Research Network, Martonvásár, Hungary

9.45-9.50

AMP-10

◆ANNA MOLNÁR<sup>1</sup>, ZSOLT ZSÓFI<sup>2</sup>, ADRIENN GEIGER<sup>1,3</sup>, CARLA MOTA LEAL<sup>3,4</sup>, GLODIA MANTWA KGOBE<sup>3,4</sup>, ADRIENN TÓTH<sup>2</sup>, SZABOLCS VILLANGÓ<sup>2</sup>, JÓZSEF GEML<sup>1,4</sup>

**THE LEAF-ASSOCIATED MYCOBIOME IN THE LIGHT OF GRAPEVINE (*VITIS VINIFERA*) GENOTYPE**

Food and Wine Research Institute<sup>1</sup>, Centre for Research and Development; Institute for Viticulture and Enology<sup>2</sup>, Eszterházy Károly Catholic University, Eger; Doctoral School of Environmental Sciences<sup>3</sup>, Hungarian University of Agricultural and Life Sciences, Gödöllő; MTA-EKKE Lendület Environmental Microbiome Research Group<sup>4</sup>, Eszterházy Károly Catholic University, Eger, Hungary

9.50-9.55

AMP-11

◆CARLA MOTA LEAL<sup>1</sup>, ADRIENN GEIGER<sup>2</sup>, JÓZSEF GEML<sup>1,2</sup>

**GRAPEVINE LEAF ENVIRONMENTAL DNA SEQUENCING PROVIDES INSIGHTS INTO TEMPORAL SUCCESSION OF PLANT PATHOGENIC FUNGI UNDER ORGANIC AND CONVENTIONAL MANAGEMENT**

MTA-EKKE Lendület Environmental Microbiome Research Group<sup>1</sup>; Food and Wine Research Institute<sup>2</sup>, Centre for Research and Development, Eszterházy Károly Catholic University, Eger, Hungary



9.55-10.00

AMP-12

◆MÁRTON MUCSI, TIBOR SZILI-KOVÁCS, SÁNDOR KOÓS, ANITA SZABÓ, BÉLA PIRKÓ

**EFFECTS OF AGRICULTURAL PRACTICES ON THE AMMONIA EMISSION FROM SOIL AND ON THE CATABOLIC PROCESSES OF MICROBIAL COMMUNITIES**

Institute for Soil Sciences, Centre for Agricultural Research, Eötvös Loránd Research Network, Budapest, Hungary

10.00-10.05

AMP-13

◆KLAUDIA PÁKOZDI, VERONIKA BODNÁR, CSABA NAGY-KÖTELES, KATALIN MURVAI, TAMÁS EMRI, ISTVÁN PÓCSI

**OXIDATIVE STRESS ELICITED GENE EXPRESSION CHANGES IN *FUSARIUM VERTICILLIOIDES* MUTANT STRAINS**

Department of Molecular Biotechnology and Microbiology, Institute of Biotechnology, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary

10.05-10.10

AMP-14

◆DÓRA ANNA PAPP, TAMÁS KOVÁCS, ANDRÁS VARGA, HENRIETTA ALLAGA, MÓNICA VÖRÖS, ANDRÁS SZEKERES, ZSUZSANNA HAMARI, CSABA VÁGVÖLGYI, MÓNICA VARGA

**SCREENING ANTAGONISTIC EFFECT OF FLUORESCENT PSEUDOMONADS AGAINST *ASPERGILLUS FLAVUS***

Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

10.10-10.15

AMP-15

◆ZSUZSANNA POHNER, MÁRTON MUCSI, TIBOR SZILI-KOVÁCS, ÁGOTA HOREL

**DIFFERENCES IN COMMUNITY-LEVEL CATABOLIC PROFILES (CLCP) CAN REFLECT SOIL CHARACTERISTICS RESULTING FROM VARIOUS LAND USES**

Department of Soil Biology, Institute for Soil Sciences, Centre for Agricultural Research, Eötvös Loránd Research Network, Budapest, Hungary

10.15-10.20

AMP-16

◆VIKTOR SZENTPÉTERI, ZOLTÁN MAYER, KATALIN POSTA

**ARBUSCULAR MYCORRHIZAL SYMBIOSES OF TOMATO UNDER HEAT AND DROUGHT STRESS, FOCUSING ON VARIOUS PHOSPHATE TRANSPORTERS**

Department of Microbiology and Applied Biotechnology, Institute of Genetics and Biotechnology, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary

10.20-10.25

AMP-17

REBEKA PAPP<sup>1</sup>, HILDA VASS<sup>1</sup>, GYÖRGYI VÁRADI<sup>2</sup>, GÁBOR K. TÓTH<sup>2,3</sup>, LÁSZLÓ GALGÓCZY<sup>1,4</sup>, PÉTER POÓR<sup>5</sup>, ◆LILIÁNA TÓTH<sup>1</sup>

**GAMMA (Γ)-CORE PEPTIDE DERIVATIVES OF NOVEL TOMATO PLANT DEFENSINS EFFECTIVELY INHIBIT THE GROWTH OF PLANT PATHOGENIC FILAMENTOUS FUNGI**

Department of Biotechnology<sup>1</sup>, Faculty of Science and Informatics; Department of Medical Chemistry<sup>2</sup>, Faculty of Medicine; MTA-SZTE Biomimetic Systems Research Group<sup>3</sup>, Faculty of Science and Informatics, University of Szeged; Institute of Biochemistry<sup>4</sup>, Biological Research Centre, Eötvös Loránd Research Network; Department of Plant Biology<sup>5</sup>, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary



10.25-10.30

AMP-18

◆VI VU<sup>1</sup>, CSILLA FARKAS<sup>1</sup>, RIYAD OUAHAB<sup>1</sup>, ERIKA BUJNA<sup>1</sup>, VIJAI KUMAR GUPTA<sup>2</sup>, QUANG DUC NGUYEN<sup>1</sup>

**ENHANCEMENT OF PRODUCTION OF SOLUBLE CARBOHYDRATES DURING BIOLOGICAL PRETREATMENT OF WHEAT BRAN**

Hungarian University of Agriculture and Life Sciences<sup>1</sup>, Budapest, Hungary; Biorefining and Advanced Materials Research Center<sup>2</sup>, Scotland's Rural College (SRUC), Edinburgh, GB

10.30-10.35

AMP-19

◆GALIYA AKHMETOVA<sup>1,2</sup>, DÁNIEL G. KNAPP<sup>1</sup>, SAMAD ASHRAFI<sup>3</sup>, WOLFGANG MAIER<sup>3</sup>, ORSOLYA MOLNÁR<sup>4</sup>, GÁBOR M. KOVÁCS<sup>1,4</sup>

**FUNGAL ROOT ENDOPHYTES FROM NORTHERN KAZAKHSTAN – NOVEL LINEAGES AND DOMINANT CORE MEMBERS**

Department of Plant Anatomy<sup>1</sup>, Institute of Biology, Faculty of Science, ELTE-Eötvös Loránd University, Budapest, Hungary; Scientific Production Centre for Grain Farming<sup>2</sup>, Shortandy, Kazakhstan; Julius Kühn-Institut<sup>3</sup>, Federal Research Centre for Cultivated Plants, Institute for Epidemiology and Pathogen Diagnostics, Braunschweig, Germany; Plant Protection Institute<sup>4</sup>, Centre for Agricultural Research, Eötvös Loránd Research Network, Budapest, Hungary

10.35-10.40

AMP-20

◆MAGDOLNA TÁLLAI, JÁNOS KÁTAI, ANDREA BALLA KOVÁCS, ZSOLT SÁNDOR

**EFFECT OF MINERAL TREATMENTS ON SOME ENZYMATIC ACTIVITIES AND CO<sub>2</sub> PRODUCTION OF ACIDIC SANDY SOILS**

Institute of Agricultural Chemistry and Soil Science, Faculty of Agriculture and Food Sciences and Environment Management, University of Debrecen, Debrecen, Hungary

**10.40-11.30 Coffee break**

**11.30-12.45 Environmental Microbiology Poster Session**

Chairpersons: József Geml and Tibor Benedek

11.30-11.35

EMP-1

◆JÓZSEF GEML<sup>1</sup>, JÓZSEF SULYOK<sup>2</sup>

**ENVIRONMENTAL DNA SEQUENCING PROVIDES INSIGHTS INTO DIVERSITY, DISTRIBUTION AND HABITAT PREFERENCE OF ECTOMYCORRHIZAL FUNGI AMONG DIFFERENT PANNONIAN FOREST TYPES**

MTA-EKKE Lendület Environmental Microbiome Research Group<sup>1</sup>, Eszterházy Károly Catholic University; Bükk National Park Directorate<sup>2</sup>, Eger, Hungary

11.35-11.40

EMP-2

MARINO KORLEVIĆ<sup>1</sup>, ◆MARSEJ MARKOVSKI<sup>1</sup>, ZIHAO ZHAO<sup>2</sup>, GERHARD J. HERNDL<sup>2,3,4</sup>, MIRJANA NAJDEK<sup>1</sup>

**A SELECTIVE PROCEDURE FOR DNA AND PROTEIN ISOLATION FROM MARINE MACROPHYTE SURFACES**

Center for Marine Research<sup>1</sup>, Ruđer Bošković Institute, Rovinj, Croatia; Department of Functional and Evolutionary Ecology<sup>2</sup>, University of Vienna, Vienna, Austria; Department of Marine Microbiology and Biogeochemistry<sup>3</sup>, Royal Netherlands Institute for Sea Research (NIOZ), Utrecht University, Den Burg, The Netherlands; Vienna Metabolomics Centre<sup>4</sup>, University of Vienna, Vienna, Austria



11.40-11.45

EMP-3

◆DORINA PÁSZTOR, TAMÁS PALKOVICS, GYÖRGY SCHNEIDER

**IDEALISATION THE RANDOMLY AMPLIFIED POLYMORPHIC (RAPD) METHOD FOR COMPARATIVE ANALYSIS OF *SHEWANELLA BALTICA* SPECIES**

Department of Medical Microbiology and Immunology, Medical School, University of Pécs, Pécs, Hungary

11.45-11.50

EMP-4

◆GYÖRGY SCHNEIDER<sup>1</sup>, ISTVÁNNÉ BÁTAI<sup>1</sup>, ISTVÁN BÁTAI<sup>2</sup>, LÁSZLÓ KÖRÖSI<sup>3</sup>, DORINA PÁSZTOR<sup>1</sup>

**ISOLATION OF BACTERIA WITH ELECTROACTIVE POTENTIALS**

Department of Medical Microbiology and Immunology<sup>1</sup>; Department of Anaesthesiology and Intensive Therapy<sup>2</sup>, Medical School; Research Institute for Viticulture and Oenology<sup>3</sup>, Faculty of Science, University of Pécs, Pécs, Hungary

11.50-11.55

EMP-5

◆HENDRIK WALTHER<sup>1</sup>, KORNÉLIA ALMÁSI<sup>2</sup>, ANDRÁS TÁNCSCS<sup>2</sup>

**ENRICHMENT AND ISOLATION OF SULFUR-OXIDIZING BACTERIA FROM A BIOFILTER TREATING H<sub>2</sub>S-CONTAINING AIR**

W+T Ltd. <sup>1</sup>, Szigetszentmárton; Department of Molecular Ecology<sup>2</sup>, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary

11.55-12.00

EMP-6

MÁRTON PÁPAI<sup>1</sup>, ANNA BEDICS<sup>1</sup>, ANDRÁS TÁNCSCS<sup>1</sup>, ADRIENN BALÁZS<sup>2</sup>, GERGELY MARÓTI<sup>3</sup>, ROLAND WIRTH<sup>3</sup>, BALÁZS KRISZT<sup>4</sup>, OFIR MENASHE<sup>5,6</sup>, ◆TIBOR BENEDEK<sup>1</sup>

**ISOLATION AND CHARACTERIZATION OF A NOVEL CARBAMAZEPINE DEGRADING BACTERIUM AFFILIATING TO THE GENUS *NOCARDIOIDES***

Department of Molecular Ecology<sup>1</sup>; Department of Environmental Toxicology<sup>2</sup>, Institute of Aquaculture and Environmental Safety, Hungarian University of Agriculture and Life Sciences, Gödöllő; Institute of Plant Biology<sup>3</sup>, Biological Research Center, Eötvös Loránd Research Network, Szeged; Department of Environmental Safety<sup>4</sup>, Institute of Aquaculture and Environmental Safety, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary; Water Industry Engineering Department<sup>5</sup>, Achi Racov School of Engineering, Kinneret Academic College on the Sea of Galilee, Zemach; BioCastle Water Technologies Ltd. <sup>6</sup>, Jordan Valley, Israel

12.00-12.05

EMP-7

◆ANNA BEDICS<sup>1</sup>, SINCHAN BANERJEE<sup>1</sup>, KORNÉLIA ALMÁSI<sup>1</sup>, TIBOR BENEDEK<sup>1</sup>, BALÁZS KRISZT<sup>2</sup>, ANDRÁS TÁNCSCS<sup>1</sup>

**MICROAEROBIC ENRICHMENT OF BENZENE DEGRADING BACTERIA AND DESCRIPTION OF *IDEONELLA BENZENIVORANS* SP. NOV.**

Department of Molecular Ecology<sup>1</sup>; Department of Environmental Safety<sup>2</sup>, Institute of Aquaculture and Environmental Safety, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary

12.05-15.10

EMP-8

◆SINCHAN BANERJEE<sup>1</sup>, ANNA BEDICS<sup>1</sup>, BALÁZS KRISZT<sup>2</sup>, ANDRÁS TÁNCSCS<sup>1</sup>

**XYLENE DEGRADATION BY *PSEUDOMONAS* SP. MAP12 AND *SPHINGOBIUM* SP. AS12 ISOLATED FROM MICROAEROBIC AND AEROBIC XYLENE DEGRADING ENRICHMENTS OF A DECADE OLD HYDROCARBON CONTAMINATED GROUNDWATER**

Department of Molecular Ecology<sup>1</sup>; Department of Environmental Safety<sup>2</sup>, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary





12.10-12.15

EMP-9

◆MÁRTON PÁPAI<sup>1</sup>, ANDRÁS TÁNCICS<sup>1</sup>, DAOOD HUSSEIN<sup>2</sup>, GERGELY MARÓTI<sup>3</sup>, BALÁZS KRISZT<sup>4</sup>, OFIR MENASHE<sup>5,6</sup>, TIBOR BENEDEK<sup>1</sup>

**SCREENING FOR DICLOFENAC, IBUPROFEN AND CARBAMAZEPINE DEGRADING BACTERIA SELECTIVELY ENRICHED AND ISOLATED FROM A SUBSURFACE BIOFILM**

Department of Molecular Ecology<sup>1</sup>, Institute of Aquaculture and Environmental Safety; Laboratories of Food Analysis<sup>2</sup>, Institute of Horticultural Sciences, Hungarian University of Agriculture and Life Science, Gödöllő; Institute of Plant Biology<sup>3</sup>, Biological Research Center, Eötvös Loránd Research Network, Szeged; Department of Environmental Safety<sup>4</sup>, Institute of Aquaculture and Environmental Safety, Hungarian University of Agriculture and Life Science, Gödöllő, Hungary; Water Industry Engineering Department<sup>5</sup>, Achi Racov School of Engineering, Kinneret Academic College on the Sea of Galilee, Zemach; BioCastle Water Technologies<sup>6</sup>, Jordan Valley; Israel

12.15-12.20

EMP-10

◆ÁKOS KILIN, EMESE TÓTH, CSILLA FARKAS, QUANG DUC NGUYEN

**BIODEGRADATION OF POLYLACTIC ACID BASED BIOPLASTIC BY BACTERIA STRAINS**

Department of Bioengineering and Alcoholic Drink Technology, Institute of Food Science and Technology, Hungarian University of Agriculture and Life Sciences, Budapest, Hungary

12.20-12.25

EMP-11

◆ETELKA KOVÁCS<sup>1</sup>, CSILLA SZŰCS<sup>1</sup>, ZOLTÁN BAGI<sup>1</sup>, GÁBOR RÁKHELY<sup>1,2</sup>, KORNÉL L. KOVÁCS<sup>1,3</sup>

**ENHANCING METHANE PRODUCTION FROM LIGNOCELLULOSIC BIOMASS PRE-TREATED WITH ANAEROBIC FUNGI**

Biotechnology Department<sup>1</sup>, Faculty of Science and Informatics, University of Szeged; Institute of Biophysics<sup>2</sup>, Biological Research Centre, Eötvös Loránd Research Network; Department of Oral Biology and Experimental Dental Research<sup>3</sup>, Faculty of Dentistry, University of Szeged, Szeged, Hungary

12.25-12.30

EMP-12

◆ZSÓFIA TISCHNER<sup>1</sup>, RÉKA KAKUCS<sup>2</sup>, TAMÁS SZIGETI<sup>2</sup>, ISTVÁN SZABÓ<sup>1</sup>, BALÁZS KRISZT<sup>1</sup>, DONÁT MAGYAR<sup>2</sup>

**AEROBIOLOGICAL INVESTIGATION OF FUNGAL AND BACTERIAL POLLUTION OF SALT CHAMBERS IN HUNGARIAN KINDERGARTENS**

Institute of Aquaculture and Environmental Safety<sup>1</sup>, Hungarian University of Agriculture and Life Sciences, Gödöllő; National Public Health Center<sup>2</sup>, Budapest, Hungary

12.30-12.35

EMP-13

◆RÓZSA FARKAS, GORKHMAZ ABBASZADE, MARWENE TOUMI, KORNÉL TAKÁTS, ERIKA TÓTH

**THE EFFECT OF ARSENIC ON BACTERIAL AND ARCHAEAL COMMUNITIES IN MICROCOSM EXPERIMENTS**

Department of Microbiology, Faculty of Science, ELTE-Eötvös Loránd University, Budapest, Hungary

12.35-12.40

EMP-14

◆ANNA MEDVEGY<sup>1</sup>, MELINDA MEGYES<sup>1</sup>, ANDREA K. BORSODI<sup>1</sup>, BALÁZS NAGY<sup>2</sup>

**BACTERIAL DIVERSITY OF THE HIGH-ALTITUDE PERMAFROST REGION LOCATED NEAR THE OJOS DEL SALADO (CENTRAL ANDES, CHILE)**

Department of Microbiology<sup>1</sup>; Department of Physical Geography<sup>2</sup>, Faculty of Science, ELTE-Eötvös Loránd University, Budapest, Hungary

Lined writing area consisting of 20 horizontal lines.

12.40-12.45

EMP-15

♦PÉTER BALÁZS, ERIKA GREIPEL, BOGLÁRKA KÜRTÖSSY, JÓZSEF KUTASI

**SCREENING OF THE ANTIBACTERIAL ACTIVITY OF ORGANIC SOLVENT EXTRACTS OF SELECTED GREEN MICROALGAE STRAINS**

Albitech Biotechnology Ltd., Budapest, Hungary

**12.45-14.00 Lunch break**

**14.00-14.40 Emőke Ferenczi Memorial Session - Virology Poster Session**

**Ferenczi, Emőke** (1946-2021), physician, virologist. She obtained her medical diploma in 1973 at Semmelweis University, started to work at The Pulmonology clinic of the University, and became medical specialist in medical laboratory analyses. From 1979 on, she worked at the Department of Viral Diagnostics of the National Public Health Institute. Her specialization concerns flaviviruses, especially the diagnostics of tick-borne encephalitis, the development of diagnostic tools, research on the serological features, and vaccination efficacy. Her work was extremely important in developing, and setting an internationally high standard in the field of arbovirus diagnostics in Hungary. In 2003, she became the head of the National Reference Laboratory for Viral Zoonoses. She also served the Hungarian Society for Microbiology as a board member in the Foundation of the Society.

Chairpersons: József Kónya and Rok Čivljak

14.00-14.10

VPP-1

♦KATJA FRIC<sup>1</sup>, ARIJANA FILIPIĆ<sup>2</sup>, POLONA KOGOVŠEK<sup>1</sup>, OLIVIJA PLOHL<sup>3</sup>, LIDIJA FRAS ZEMLJIČ<sup>3</sup>

**STUDYING ANTIVIRAL POTENTIAL OF DIFFERENT ORGANIC COMPOUNDS USED FOR FACE MASK MATERIALS**

National Institute of Biology<sup>1</sup>; Department of Biotechnology and Systems Biology<sup>2</sup>, National Institute of Biology, Ljubljana; Faculty of Mechanical Engineering<sup>3</sup>, University of Maribor, Maribor, Slovenia

14.10-14.20

VPP-2

♦EVA HULJEV, NINOSLAVA VICKOVIĆ, IVAN KREŠIMIR LIZATOVIĆ, OKTAVIJA ĐAKOVIĆ RODE, MARTA PEROVIĆ MIHANOVIĆ, VANJA ROMIH PINTAR, KRISTIAN BODULIĆ, ROK ČIVLJAK

**EFFECTIVE PREVENTION OF OCCUPATIONAL SARS-CoV-2 INFECTION AMONG HEALTHCARE WORKERS AT THE UNIVERSITY HOSPITAL FOR INFECTIOUS DISEASES "DR. FRAN MIHALJEVIĆ", ZAGREB DURING THE FIRST WAVE OF THE COVID-19 PANDEMIC**

University Hospital for Infectious Diseases "Dr Fran Mihaljevic", School of Medicine, University of Zagreb, Zagreb, Croatia

14.20-14.30

VPP-3

ANNA NAGY<sup>1</sup>, NIKOLETT CSONKA<sup>1</sup>, ♦MÁRIA TAKÁCS<sup>1,2</sup>, ESZTER MEZEI<sup>3</sup>, ÉVA BARABÁS<sup>4</sup>

**WEST NILE AND USUTU VIRUS SEROPREVALENCE IN HUNGARY: A NATIONWIDE SEROSURVEY AMONG BLOOD DONORS IN 2019**

National Reference Laboratory for Viral Zoonoses<sup>1</sup>, Division of Microbiological Reference Laboratories, National Public Health Center; Institute of Medical Microbiology<sup>2</sup>, Faculty of Medicine, Semmelweis University; Department of Communicable Diseases Epidemiology and Infection Control<sup>3</sup>, National Public Health Center; Confirmatory Laboratory<sup>4</sup>, Hungarian National Blood Transfusion Service, Budapest, Hungary

14.30-14.40

VPP-4

♦NINOSLAVA VICKOVIĆ, EVA SMILJANIĆ, MARTA PEROVIĆ MIHANOVIĆ, IVAN KREŠIMIR LIZATOVIĆ, ANTONIA ČIVLJAK, EVA HULJEV, VANJA ROMIH PINTAR, KRISTIAN BODULIĆ, ROK ČIVLJAK

**CLINICAL CHARACTERISTICS AND OUTCOMES OF COVID-19 IN PATIENTS HOSPITALIZED AT THE UNIVERSITY HOSPITAL FOR INFECTIOUS DISEASES „DR. FRAN MIHALJEVIĆ“ IN ZAGREB, CROATIA, DURING THE FIRST WAVE OF THE EPIDEMIC**

University Hospital for Infectious Diseases "Dr Fran Mihaljevic", School of Medicine, University of Zagreb, Zagreb, Croatia



**14.40-15.00 Coffee break**

**15.00-15.35 Industrial Microbiology Poster Session**

Chairpersons: Erzsébet Fekete and András Szekeres

15.00-15.05

IMP-1

◆ALEXANDRA KOVÁCS-KOTOGÁN<sup>1</sup>, ZSÓFIA FURKA<sup>1</sup>, BETTINA VOLFFORD<sup>1</sup>, MÓNICA VARGA<sup>1</sup>, TAMÁS PAPP<sup>2</sup>, CSABA VÁGVÖLGYI<sup>1</sup>, MIKLÓS TAKÓ<sup>1</sup>

**ENZYMATIC PRODUCTION OF BIOACTIVE FATTY ACIDS FROM VEGETABLE AND FISH OILS**

Department of Microbiology<sup>1</sup>; MTA-SZTE "Lendület" Fungal Pathogenicity Mechanisms Research Group<sup>2</sup>, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

15.05-15.10

IMP-2

◆ANDRÁS SZEKERES, ATTILA BARTAL, HUNH THU, MÓNICA VÖRÖS, CSABA VÁGVÖLGYI

**SURFACTIN PRODUCTION OF *BACILLUS* STRAINS ISOLATED FROM RHIZOSPHERE OF VARIOUS VEGETABLES**

Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

15.10-15.15

IMP-3

◆ANDRÁS SZEKERES, DÓRA BALÁZS, CHETNA TYAGI, TAMÁS MARIK, CSABA VÁGVÖLGYI, LÁSZLÓ KREDICS

**ESTABLISHING STRUCTURE-ACTIVITY RELATIONSHIPS (SARS) FOR NEWLY IDENTIFIED FUNGAL PEPTAIBOLS: A COMBINATION OF EXPERIMENTAL AND THEORETICAL TECHNIQUES**

Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

15.15-15.20

IMP-4

◆ZSÓFIA HEGEDÜS<sup>1,2</sup>, CSENGE KASUBA<sup>1</sup>, CSABA VÁGVÖLGYI<sup>1</sup>, ANDRÁS SZEKERES<sup>1</sup>

**PURIFICATION OF SURFACTINS FROM THE FERMENT BROTH OF A *BACILLUS SUBTILIS* STRAIN**

Department of Microbiology<sup>1</sup>; Doctoral School in Biology<sup>2</sup>, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

15.20-15.25

IMP-5

◆CSILLA DARÓCZI<sup>1,2</sup>, VIVIEN BÍRÓ<sup>1</sup>, LEVENTE KARAFFA<sup>1</sup>, ERZSÉBET FEKETE<sup>1</sup>, JÁNOS ELEK<sup>2</sup>

**INVESTIGATION OF THE EFFECT OF PARALLEL PRESENCE OF TRACE METAL IONS IN THE ITACONIC ACID PRODUCTION BY *ASPERGILLUS TERREUS* USING RSM AND CENTRAL COMPOSITE DESIGN**

Department of Biochemical Engineering<sup>1</sup>, Faculty of Science and Technology, University of Debrecen; Science Port Ltd.<sup>2</sup>, Debrecen, Hungary

15.25-15.30

IMP-6

◆ALEXANDRA MÁRTON, ◆VIVIEN BÍRÓ, ISTVÁN BAKONDI-KOVÁCS, ERZSÉBET FEKETE, LEVENTE KARAFFA

**THE FINAL 30 PERCENT: OPTIMIZING THE *ASPERGILLUS NIGER* CITRIC ACID FERMENTATION UP TO THE THEORETICAL MAXIMUM**

Department of Biochemical Engineering, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary



15.30-15.35

IMP-7

◆DÁVID KISS-LEIZER<sup>1</sup>, ERIK KÉSMÁRKI<sup>1</sup>, MÁTÉ HÁRI<sup>1</sup>, RÓZSA MÁTÉ<sup>1</sup>, ZSOLT BEREZKY<sup>2</sup>, JÓZSEF KUTASI<sup>1</sup>, ÉVA KÁRPÁTI<sup>1</sup>

**DEVELOPMENT OF A FERMENTATION GROWTH TECHNOLOGY FOR A *MESORHIZOBIUM CICERI* CHICKPEA SYMBIONT STRAIN**

BioFil Microbiological, Biotechnological and Biochemical Ltd.<sup>1</sup>; Saniplant Ltd.<sup>2</sup>, Budapest, Hungary

**15.35-16.00 Coffee break**

**16.00-16.50 Bacteriology Poster Session**

Chairpersons: Katalin Posta, and Gabriella Spengler

16.00-16.05

BPP-1

◆THU HUYNH<sup>1,2</sup>, MÓNKA VÖRÖS<sup>1</sup>, BALÁZS LEITGEB<sup>3</sup>, CSABA VÁGVÖLGYI<sup>1</sup>, ANDRÁS SZEKERES<sup>1</sup>

**DISCRIMINATION BETWEEN TWO *BACILLUS* SPECIES BASED ON WHOLE-CELL FATTY ACID PROFILES**

Department of Microbiology<sup>1</sup>; Doctoral School in Biology<sup>2</sup>, Faculty of Science and Informatics, University of Szeged; Institute of Biophysics<sup>3</sup>, Biological Research Centre; Eötvös Loránd Research Network, Szeged, Hungary

16.05-16.10

BPP-2

◆ÁKOS JUHÁSZ, ZOLTÁN MAYER, KATALIN POSTA

**THE EFFECT OF PHYTOBIOTIC-PREBIOTIC MIXTURE ON INTESTINAL MICROBIOTA OF PIGLETS**

Department of Microbiology and Applied Biotechnology, Institute of Genetics and Biotechnology, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary

16.10-16.15

BPP-3

DOMINIK BALI<sup>1</sup>, NÓRA SZAMEK<sup>1</sup>, ÁGNES SOLTI-HODOVÁN<sup>1</sup>, CSILLA NÉMETH<sup>1</sup>, SZILVIA PAPP<sup>1</sup>, ILDIKÓ VARGA<sup>1</sup>, GYÖRGY SCHNEIDER<sup>3</sup>, LÁSZLÓ MAKRAI<sup>4</sup>, SARSHAD KODERI VALAPPIL<sup>5</sup>, GÁBOR RÁKHELY<sup>5</sup>, ◆TAMÁS KOVÁCS<sup>1,2</sup>

**ISOLATION AND PARTIAL CHARACTERIZATION OF NOVEL BACTERIOPHAGES AGAINST *PAENIBACILLUS LARVAE* SUBSP. *LARVAE***

Biotechnology, Enviroinvest Corp.<sup>1</sup>; Biopesticide Ltd.<sup>2</sup>; Department of Medical Microbiology and Immunology<sup>3</sup>, Medical School, University of Pécs, Pécs; Department of Microbiology and Infectious Diseases<sup>4</sup>, University of Veterinary Medicine, Budapest; Department of Biotechnology<sup>5</sup>, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

16.15-16.20

BPP-4

◆BETTINA SCHWEITZER<sup>1</sup>, GYÖRGY HORVÁTH<sup>2</sup>, VIKTÓRIA LILLA BALÁZS<sup>2</sup>, ANNA MAYER<sup>3</sup>, GYÖRGY SCHNEIDER<sup>1</sup>

**ANTIBACTERIAL EFFECTS OF ESSENTIAL OILS AGAINST *CUTIBACTERIUM ACNES***

Department of Medical Microbiology and Immunology<sup>1</sup>; Institute of Pharmacognosy<sup>2</sup>; Department of Pharmaceutics and Central Clinical Pharmacy<sup>3</sup>, Medical School, University of Pécs, Pécs, Hungary

16.20-16.25

BPP-5

BAKHTIYAR MAHMOOD<sup>1</sup>, ZAIN BAAITY<sup>1</sup>, DAVID LEITSCH<sup>2</sup>, KATALIN BURIÁN<sup>1</sup>, ELISABETH NAGY<sup>1</sup>, ◆JÓZSEF SÓKI<sup>1</sup>

**INVESTIGATION OF THE SAME *NIM* GENE-INSERTION SEQUENCE CONFIGURATIONS ON THE EXPRESSION OF THE *NIM* GENES AND METRONIDAZOLE RESISTANCE OF *BACTEROIDES FRAGILIS* STRAINS**

Institute of Medical Microbiology<sup>1</sup>, Faculty of Medicine, University of Szeged, Szeged, Hungary; Institute of Tropical Medicine and Hygiene<sup>2</sup>, Medical University of Vienna, Vienna, Austria





16.25-16.30

BPP-6

NIKOLETTA SZEMERÉDI, BO YOUNG HUH, BÁLINT RÁCZ, ♦GABRIELLA SPENGLER, ANNAMÁRIA KINCSES

**INHIBITION OF QUORUM SENSING BY CONVENTIONAL ANTIBIOTICS AND RESISTANCE MODIFIERS**

Department of Medical Microbiology, Albert Szent-Györgyi Health Center and Faculty of Medicine, University of Szeged, Szeged, Hungary

16.30-16.35

BPP-7

MARINA V. KUZNETSOVA<sup>1</sup>, LARISA YUR'IEVNA NESTEROVA<sup>1</sup>, IRINA LEONIDOVNA MASLENNIKOVA<sup>1</sup>, YULIYA SAGITOVNA POSPELOVA<sup>1</sup>, ELISAVETA VIKTOROVNA AFANAS'EVSKAYA<sup>2</sup>, VALERIY ALEKSANDROVICH NESCHISLYAEV<sup>3</sup>, ♦MARJANCA STARČIČ ERJAVEC<sup>4</sup>

**BIOLOGICAL PROPERTIES OF POTENTIAL *ESCHERICHIA COLI* PROBIOTIC STRAINS LEGM-18 AND ZP**

Institute of Ecology and Genetics of Microorganisms<sup>1</sup>, Ural Branch Russian Academy of Sciences; Perm State Medical University Named after Academician E. A. Wagner<sup>2</sup>; The Federal State Unitary Enterprise "Scientific and Production Association for Immunological Preparations Microgen" of the Ministry of Health of the Russian Federation<sup>3</sup>, Perm, Russia; Biotechnical Faculty<sup>4</sup>, University of Ljubljana, Ljubljana, Slovenia

16.35-16.40

BPP-8

♦NIKOLETTA SZEMERÉDI<sup>1</sup>, ANNAMÁRIA KINCSES<sup>1</sup>, GÁBOR TÓTH<sup>1</sup>, ENRIQUE DOMINGUEZ-ALVAREZ<sup>2</sup>, GABRIELLA SPENGLER<sup>1</sup>

**SELENOESTERS AS EFFLUX PUMP INHIBITORS IN BACTERIA AND CANCER CELLS**

Department of Medical Microbiology<sup>1</sup>, Albert Szent-Györgyi Health Center and Faculty of Medicine, University of Szeged, Szeged, Hungary; Institute of General Organic Chemistry<sup>2</sup>, Spanish National Research Council, (IQOG-CSIC), Madrid, Spain

16.40-16.45

BPP-9

BOGLÁRKA JUHÁSZ<sup>1</sup>, CSABA VÁGVÖLGYI<sup>1</sup>, GÁBOR GIRST<sup>2</sup>, ATTILA HUNYADI<sup>2</sup>, MÁTÉ VÁGVÖLGYI<sup>2</sup>, ♦MÓNKA VÖRÖS<sup>1</sup>

**INVESTIGATION OF THE ANTIMICROBIAL EFFECTS OF PROTOFLAVONOID COMPOUNDS**

Department of Microbiology<sup>1</sup>, Faculty of Science and Informatics; Institute of Pharmacognosy<sup>2</sup>, Faculty of Pharmacy, University of Szeged, Szeged, Hungary

16.45-16.50

BPP-10

♦LÁSZLÓ KREDICS, CHETNA TYAGI, TAMÁS MARIK, CSABA VÁGVÖLGYI

**BIOACTIVE PEPTAIBOLS AS POSSIBLE AGENTS OF DISEASE MANAGEMENT AGAINST MULTI-DRUG RESISTANT HUMAN PATHOGENIC BACTERIAL STRAINS**

Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

**19.00- CEFORM Reception – Hotel Aranyhomok - Restaurant**



Friday, October 15

Conference Hall

**8.30-12.15 Endre Hőgyes Molecular Diagnostics and Pathogenesis Session**

**Hőgyes, Endre** (1847-1906), Hungarian physician, and outstanding scholar of experimental medicine. Following his school years in his hometown, and Debrecen, in 1865 he entered medical studies at the University of Budapest. In 1870, he obtained medical doctors' diploma, and joined the Szent Rókus Hospital as assistant. In 1875, he became the professor of pathology in Kolozsvár (today Cluj, Romania). In 1883, he was called to take the professorship of pathology at the Faculty of Medicine of the Budapest University. One of his duties was to test Pasteur's vaccination methodology against rabies. He improved the vaccination, and in 1890 launched the Pasteur Institute of Budapest, where the vaccine was produced, and the snapped people were treated. His „dilution” technology for vaccination was adapted in many countries from 1900 on.

Chairpersons: Katalin Kristóf, and László Galgóczy

8.30-9.00

MDO-1

◆WILMA ZIEBUHR, GABRIELLA MARINCOLA

**REGULATORY CROSSTALK BETWEEN CORE GENOME AND HORIZONTALLY ACQUIRED GENES INFLUENCES BIOFILM EXPRESSION IN *STAPHYLOCOCCUS AUREUS***

Institute of Molecular Infection Biology, University of Würzburg, Würzburg, Germany

9.00-9.15

MDO-2

ÁRON TORMÁSSI, ORSOLYA DOBAY, JUDIT SAHIN-TÓTH, ◆ANDREA HORVÁTH

**PREVALENCE AND MOLECULAR CHARACTERIZATION OF *STAPHYLOCOCCUS AUREUS* ISOLATES FROM CHILDREN'S PLAYGROUNDS IN HUNGARY**

Institute of Medical Microbiology, Faculty of Medicine, Semmelweis University, Budapest, Hungary

9.15-9.30

MDO-3

◆KATALIN KRISTÓF<sup>1</sup>, EMESE JUHÁSZ<sup>1</sup>, ESZTER OSTORHÁZI<sup>2</sup>, DÓRA SZABÓ<sup>2</sup>; AND THE EIT HEALTH PROJECT TEAM

**PRELIMINARY EXPERIENCE WITH THE BL-DETECTOOL: AN INNOVATIVE TOOL FOR RAPID DETECTION OF BROAD-SPECTRUM BETA-LACTAMASES AND CARBAPENEMASES DIRECTLY FROM CLINICAL SAMPLES**

Institute of Laboratory Medicine<sup>1</sup>; Institute of Medical Microbiology<sup>2</sup>, Semmelweis University, Budapest, Hungary

9.30-9.45

MDO-4

◆ORSOLYA STRANG<sup>1</sup>, NOÉMI NIKOLETT GÖNCZI<sup>1</sup>, MELINDA MADLÉNA<sup>1</sup>, ZOLTÁN BARÁTH<sup>1</sup>, GÁBOR RÁKHELYI<sup>1,2</sup>, ZOLTÁN BAGI<sup>1,2</sup>, KORNÉL L. KOVÁCS<sup>1</sup>

**ORAL PROBIOTICS FOR POTENTIAL HEALTHCARE APPLICATIONS**

Department of Biotechnology<sup>1</sup>, Faculty of Science and Informatics, University of Szeged; Institute of Biophysics<sup>2</sup>, Biological Research Centre, Eötvös Loránd Research Network, Szeged, Hungary

9.45-10.00

MDO-5

◆DRAGAN BRNIĆ<sup>1</sup>, DANIEL ČOLIĆ<sup>1,2</sup>, NINA KREŠIĆ<sup>1</sup>, ŽELJKO MIHALJEVIĆ<sup>1</sup>, TIBOR ANDREÁNSZKY<sup>3</sup>, DAVOR BALIĆ<sup>4</sup>, MARICA LOLIĆ<sup>4</sup>

**ROTAVIRUS A IN RED FOXES AND EUROPEAN JACKALS: HIGH GENETIC DIVERSITY AND THE EVIDENCE OF COMPLEX BACKGROUND OF INTERSPECIES TRANSMISSION EVENTS**

Virology, Croatian Veterinary Institute<sup>1</sup>; Department of Biology<sup>2</sup>, Faculty of Science, University of Zagreb, Zagreb; Veterinary Department Rijeka<sup>3</sup>, Croatian Veterinary Institute, Rijeka; Veterinary Department Vinkovci<sup>4</sup>, Croatian Veterinary Institute, Vinkovci, Croatia



10.00-10.15

MDO-6

◆MOJCA JANC<sup>1</sup>, KAJA ZEVNIK<sup>1</sup>, MAJA ŠTALEKAR<sup>1</sup>, MAGDA TUŠEK ŽNIDARIČ<sup>1</sup>, NEJC KOŠIR<sup>1,2</sup>, TJAŠA JAKOMIN<sup>1</sup>, REBECCA VOLLMEIER KOVAČIČ<sup>1,2</sup>, NIKA SAVODNIK<sup>1</sup>, POLONA KOGOVŠEK<sup>1,2</sup>, DAVID DOBNIK<sup>1,2</sup>

**IN-DEPTH ANALYSIS OF AAV-CONTAINING FRACTIONS EXTRACTED FROM A CsCl ULTRACENTRIFUGATION GRADIENT**

Department for Systems Biology and Biotechnology<sup>1</sup>, National Institute of Biology; Niba Labs Ltd.<sup>2</sup>, Ljubljana, Slovenia

10.15-10.30

MDO-7

◆KÁROLY NAGY, OLIGA COROLCIUC, JOSEPH ONGRÁDI

**ACTIVATION OF LATENT HHV-6 VIRUS INFECTION DURING LONG-DURATION SPACE FLIGHT - IN THE LIGHT OF "INTERFERON" SPACE EXPERIMENTS**

Institute of Medical Microbiology, Faculty of Medicine, Semmelweis University, Budapest, Hungary

**10.30-11.00 Coffee break**

Chairpersons: Marjanca Starčič Erjavec and Attila Gácsér

11.00-11.15

MDO-8

◆ÉVA VERES<sup>1</sup>, ZÓRA SZILOVICS<sup>1</sup>, DÓRA ADAMECZ<sup>2</sup>, MÁTÉ VADOVICS<sup>1</sup>, KRISZTINA BUZÁS<sup>3,4</sup>, NÓRA IGÁZ<sup>2</sup>, CSABA VÁGVÖLGYI<sup>1</sup>, MÓNKA KIRICSI<sup>2</sup>, ATTILA GÁCSER<sup>5,6</sup>

**INVESTIGATION OF THE INTERACTION BETWEEN *CANDIDA* EXTRACELLULAR VESICLES AND ORAL SQUAMOUS CELL CARCINOMA CELL LINES**

Department of Microbiology<sup>1</sup>; Department of Biochemistry and Molecular Biology<sup>2</sup>, Faculty of Science and Informatics, University of Szeged; Synthetic and System Biology Unit<sup>3</sup>, Biological Research Centre (BRC), Eötvös Loránd Research Network; Faculty of Dentistry<sup>4</sup>; HCEMM-USZ Fungal Pathogens Research Group<sup>5</sup>; MTA-SZTE "Lendület" Mycobiome Research Group<sup>6</sup>, Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

11.15-11.30

MDO-9

◆GYÖRGY SCHNEIDER, BETTINA SCHWEITZER

**A NEWLY IDENTIFIED PLAYER IN PITTED KERATOLYSIS**

Department of Medical Microbiology and Immunology, Medical School, University of Pécs, Pécs, Hungary

11.30-11.45

MDO-10

ALEXANDRA IMRE<sup>1</sup>, HANNA VIKTÓRIA RÁCZ<sup>1</sup>, PÉTER OLÁH<sup>2,3</sup>, ZSUZSA ANTUNOVICS<sup>4</sup>, ILONA DÓCZI<sup>5</sup>, RENÁTÓ KOVÁCS<sup>6,7</sup>, LÁSZLÓ MAJOROS<sup>6</sup>, ISTVÁN PÓCSI<sup>1</sup>, KSENJA LOPANDIČ<sup>8</sup>, DEVIN BENDIXSEN<sup>9</sup>, RIKE STELKENS<sup>9</sup>, ◆WALTER P. PFLIEGLER<sup>1</sup>

**TUNING GENOMICS FOR HIGHLY HETEROZYGOUS AND POLYPLOID *SACCHAROMYCES* GENOMES: WHERE DID OUR COMMERCIAL AND CLINICAL YEASTS COME FROM?**

Department of Molecular Biotechnology and Microbiology<sup>1</sup>, Faculty of Science and Technology; University of Debrecen, Debrecen; Department of Dermatology, Venereology and Oncodermatology<sup>2</sup>, Medical School, University of Pécs, Pécs, Hungary; Department of Dermatology<sup>3</sup>, University Hospital of Düsseldorf, Düsseldorf, Germany; Department of Genetics and Applied Microbiology<sup>4</sup>, Faculty of Science and Technology, University of Debrecen, Debrecen; Institute of Clinical Microbiology<sup>5</sup>, Faculty of Medicine, University of Szeged, Szeged; Department of Medical Microbiology<sup>6</sup>, Faculty of Medicine; Faculty of Pharmacy<sup>7</sup>, University of Debrecen, Debrecen, Hungary; Institute of Biotechnology<sup>8</sup>, University of Natural Resources and Life Sciences, Vienna, Austria; Department of Zoology<sup>9</sup>, Stockholm University, Stockholm, Sweden



11.45-12.00

MDO-11

◆ALEXANDRA IMRE<sup>1</sup>, RENÁTÓ KOVÁCS<sup>2</sup>, KITTI PÁZMÁNDI<sup>3</sup>, ÁGNES JAKAB<sup>1</sup>, HANNA V. RÁCZ<sup>1</sup>, DÁNIEL NEMES<sup>4</sup>, ILONA DÓCZI<sup>5</sup>, ILDIKÓ BÁCISKAY<sup>4</sup>, ATTILA GÁCSE<sup>6</sup>, ZOLTÁN FARKAS<sup>7</sup>, KÁROLY KOVÁCS<sup>7</sup>, LÁSZLÓ MAJOROS<sup>2</sup>, ISTVÁN PÓCSI<sup>1</sup>, WALTER P. PFLIEGLER<sup>1</sup>

**VIRULENCE FACTORS AND IN-HOST SELECTION OF PHENOTYPES IN INFECTIOUS PROBIOTIC YEAST ISOLATES**

Department of Molecular Biotechnology and Microbiology<sup>1</sup>, Faculty of Science and Technology; Department of Medical Microbiology<sup>2</sup>; Department of Immunology<sup>3</sup>, Faculty of Medicine; Department of Pharmaceutical Technology<sup>4</sup>, Faculty of Pharmacy, University of Debrecen, Debrecen; Department of Clinical Microbiology<sup>5</sup>, Faculty of Medicine; Department of Microbiology<sup>6</sup>, Faculty of Science and Informatics, University of Szeged, Szeged; Synthetic and Systems Biology Unit<sup>7</sup>, Institute of Biochemistry, Biological Research Centre, Eötvös Loránd Research Network, Szeged, Hungary

12.00-12.15

MDO-12

LILIÁNA TÓTH<sup>1</sup>, GERGELY KOHUT<sup>2,3</sup>, TAMÁS BEKE-SOMFAI<sup>2</sup>, ANDRÁS CZAJLIK<sup>4</sup>, GÁBOR BENDE<sup>1</sup>, ZOLTÁN KELE<sup>5</sup>, GÁBOR RÁKHELYI<sup>1,6</sup>, FLORENTINE MARX<sup>7</sup>, GYULA BATTÁ<sup>4</sup>, ◆LÁSZLÓ GALGÓCZY<sup>1</sup>

**MECHANISM OF ACTION AND POTENTIAL TARGETS OF *NEOSARTORYA (ASPERGILLUS) FISCHERI* ANTIFUNGAL PROTEIN 2**

Department of Biotechnology<sup>1</sup>, Faculty of Science and Informatics, University of Szeged, Szeged; Institute of Materials and Environmental Chemistry<sup>2</sup>, Research Centre for Natural Sciences, Eötvös Loránd Research Network; MTA-ELTE Research Group of Peptide Chemistry<sup>3</sup>, Faculty of Science, Eötvös Loránd University, Budapest; Department of Organic Chemistry<sup>4</sup>, Faculty of Science and Technology, University of Debrecen, Debrecen; Department of Medical Chemistry<sup>5</sup>, Faculty of Medicine, University of Szeged; Institute of Biophysics<sup>6</sup>, Biological Research Centre, Eötvös Loránd Research Network, Szeged, Hungary; Institute of Molecular Biology<sup>7</sup>, Biocenter, Medical University of Innsbruck, Innsbruck, Austria

**12.15-14.00 Lunch break**

**14.00-14.30 Closing Ceremony and Farewell Drink  
Delivery of the poster competition awards**





Friday, October 15

Lecture Hall

**8.30-10.15 Vilmos Westsik Agricultural Microbiology Session**

**Westsik, Vilmos** (1883-1976), Agricultural engineer, professor. He graduated at the Higher Farming Academy at Keszthely in 1905, and obtained a magisterial license in 1907. He had been teaching in several farming schools. The Tiszántúl Agricultural Chamber entrusted him in 1929 to establish the Sand Remediation Experimental Farm in Nyíregyháza. For enhancing the productivity of poor sandy soils, he launched a long-period experiment to assess the effect of mulching, manuring, crop shift, crop rotation, moreover mineral fertilization. He investigated the effect of tilling technologies on soil degradation, and published his results in several handbooks on „rational farming”. Based on his eminent scientific results became a member of the Hungarian Academy of Sciences in 1958. His long-time experimental setups are still maintained.

Chairpersons: Andrea K. Borsodi, and Dániel G. Knapp

8.30-8.45

WAO-1

◆ZOLTÁN KARÁCSONY<sup>1</sup>, DÁNIEL G. KNAPP<sup>1,2,3</sup>, SZABINA LENGYEL<sup>1</sup>, GÁBOR M. KOVÁCS<sup>1,2,3</sup>, KÁLMÁN ZOLTÁN VÁCZY<sup>1</sup>

**THE FUNGUS *KALMUSIA LONGISPORA* IS ASSOCIATED WITH GRAPEVINE TRUNK DISEASES**

Food and Wine Research Institute<sup>1</sup>, Eszterházy Károly Catholic University, Eger; Department of Plant Anatomy<sup>2</sup>, Institute of Biology, Faculty of Science, ELTE-Eötvös Loránd University, Budapest; Plant Protection Institute<sup>3</sup>, Centre for Agricultural Research, Eötvös Loránd Research Network, Budapest, Hungary

8.45-9.00

WAO-2

◆FRUZSINA MATOLCSI<sup>1,2</sup>, ÁRON N. HORVÁTH<sup>1</sup>, ORSOLYA MOLNÁR<sup>1</sup>, MÁRK Z. NÉMETH<sup>1</sup>, LEVENTE KISS<sup>1,4</sup>, KÁLMÁN Z. VÁCZY<sup>3</sup>, GÁBOR M. KOVÁCS<sup>1,2</sup>, ALEXANDRA PINTYE<sup>1</sup>

**INVESTIGATING THE PREVALENCE OF A FUNGICIDE RESISTANCE MARKER AND THE GENETIC STRUCTURE OF A GRAPEVINE POWDERY MILDEW POPULATION IN MÁD (TOKAJ)**

Centre for Agricultural Research<sup>1</sup>, Eötvös Loránd Research Network, Martonvásár; Department of Plant Anatomy<sup>2</sup>, Institute of Biology, Faculty of Science, ELTE-Eötvös Loránd University, Budapest; Food and Wine Research Institute<sup>3</sup>, Eszterházy Károly Catholic University, Eger, Hungary; Centre for Crop Health<sup>4</sup>, Institute for Life Sciences and the Environment, University of Southern Queensland, Toowoomba, Australia

9.00-9.15

WAO-3

◆ILDIKÓ IMREFI<sup>1</sup>, PETRA LENGYEL<sup>1</sup>, SÁRA HORVÁTH<sup>1</sup>, GÁBOR HERCZEG<sup>2</sup>, DÁNIEL G. KNAPP<sup>1</sup>, GÁBOR M. KOVÁCS<sup>1,3</sup>

**EFFECTS OF THE ORIGINAL HOSTS: POT EXPERIMENTS OF *PERICONIA MACROSPINOSA* ROOT ENDOPHYTES ORIGINATING FROM WHEAT AND MAIZE MONOCULTURES**

Department of Plant Anatomy<sup>1</sup>; Department of Systematic Zoology and Ecology<sup>2</sup>, Institute of Biology, Faculty of Science, ELTE-Eötvös Loránd University; Plant Protection Institute<sup>3</sup>, Centre for Agricultural Research, Eötvös Loránd Research Network, Budapest, Hungary

9.15-9.30

WAO-4

◆RITA BÜCHNER<sup>1</sup>, MÓNIKA VÖRÖS<sup>1</sup>, HENRIETTA ALLAGA<sup>1</sup>, JUDIT BAJZÁT<sup>2</sup>, NÓRA BAKOS-BARCZI<sup>2</sup>, CSABA NAGY-KÖTELES<sup>2</sup>, CSABA CSUTORÁS<sup>3</sup>, LÓRÁNT HATVANI<sup>1</sup>, CSABA VÁGVÖLGYI<sup>1</sup>, LÁSZLÓ KREDICS<sup>1</sup>

**BIOCONTROL PROPERTIES OF *BACILLUS VELEZENSIS* AGAINST *TRICHODERMA AGGRESSIVUM* CAUSING GREEN MOULD DISEASE ON WHITE BUTTON MUSHROOM**

Department of Microbiology<sup>1</sup>, Faculty of Science and Informatics, University of Szeged, Szeged; ÚjChampignons Ltd.<sup>2</sup>, Budapest; Department of Chemistry and Food Chemistry<sup>3</sup>, Institute of Food Sciences, Eszterházy Károly Catholic University, Eger, Hungary



9.30-9.45

WAO-5

♦KATALIN BERECZKI<sup>1</sup>, MELINDA MEGYES<sup>2</sup>, TIBOR SZILI-KOVÁCS<sup>3</sup>, KRISTÓF KORPONAI<sup>2</sup>, KÁROLY MÁRIALIGETI<sup>2</sup>

**PRELIMINARY RESULTS OF SOIL MICROBIOME ANALYSIS ON FOREST STANDS IN CENTRAL-HUNGARY**

Department of Ecology and Silviculture<sup>1</sup>, University of Sopron-Forest Research Institute, Sárvár; Department of Microbiology<sup>2</sup>, Faculty of Science, ELTE-Eötvös Loránd University, Budapest; Institute for Soil Sciences and Agricultural Chemistry<sup>3</sup>, Centre for Agricultural Research, Budapest, Hungary

9.45-10.00

WAO-6

♦TIBOR SZILI-KOVÁCS<sup>1</sup>, MÁRTON MUCSI<sup>1</sup>, MELINDA MEGYES<sup>2</sup>, KÁROLY MÁRIALIGETI<sup>2</sup>, TAMÁS ÁRENDÁS<sup>1</sup>, ANDREA K. BORSODI<sup>2</sup>

**CATABOLIC ACTIVITY PROFILES OF SOIL MICROBIOTA IN A LONG-TERM CROP ROTATION EXPERIMENT BY APPLYING MICRORESP METHOD**

Institute for Soil Sciences<sup>1</sup>, Centre for Agricultural Research, Eötvös Loránd Research Network, Martonvásár; Department of Microbiology<sup>2</sup>, Faculty of Science, ELTE-Eötvös Loránd University, Budapest, Hungary

10.00-10.15

WAO-7

♦TÜNDE PUSZTAHELYI, CINTIA ADÁCSI

**NON-LACTIC ACID BACTERIA FOR BIOLOGICAL CONTROL OF MYCOTOXIN CONTAMINATION IN COMMODITIES**

Faculty of Agricultural and Food Sciences and Environmental Management, University of Debrecen, Debrecen, Hungary

**10.15-10.30 Coffee break**

**10.30-11.15 Luis Federico Leloir Industrial Microbiology Session**

**Leloir, Luis Federico** (1906 – 1987), Argentine physician and biochemist, Nobel laureate (1970) in chemistry. He was born in France, but was primarily educated at the University of Buenos Aires. He received his diploma in 1932. After some years of medical internship, he decided to continue in laboratory research under the supervision of the later Nobel laureate Bernardo Alberto Houssay. He soon received his PhD, and in 1936 traveled to England to work and study at the University of Cambridge, under the supervision of a Nobel Prize winner, Sir Frederick Gowland Hopkins. Here he began to specialize to carbohydrate metabolism research. He returned to Buenos Aires, but soon left Argentina for political reasons. He took associate professorship at the Washington University and latter at Columbia University. In 1945, Leloir returned to Argentina. From 1947, he became the director of Instituto de Investigaciones Bioquímicas de la Fundación Campomar. Leloir and his colleagues identified sugar nucleotides, and elucidated the primary mechanisms of galactose metabolism. He became parallel a professor at the University of Buenos Aires. He was decorated with several national and international awards (e.g. Member of the Royal Society).

Chairpersons: Zsuzsanna Hamari and Levente Karaffa

10.30-10.45

LIM-1

ÁRON NÉMETH

**TECHNO-ECONOMIC ANALYSIS FOR COMPLEX UTILISATION OF *YARROWIA LIPOLYTICA***

Department of Applied Biotechnology and Food Sciences, Faculty of Chemistry, Budapest University of Technology and Economics, Budapest, Hungary

10.45-11.00

LIM-2

♦ZSUZSANNA HAMARI<sup>1</sup>, ESZTER BOKOR<sup>1</sup>, JUDIT ÁMON<sup>1</sup>, ZSÓFIA HEGEDŰS<sup>1</sup>, MÓNKA VARGA<sup>1</sup>, ANDRÁS SZEKERES<sup>1</sup>, TAMÁS JAKUSCH<sup>2</sup>, CSABA VÁGVÖLGYI<sup>1</sup>

**NICOTINATE DEGRADATION IN A MICROBIAL EUKARYOTE: A NOVEL, COMPLETE PATHWAY EXTANT IN *ASPERGILLUS NIDULANS***

Department of Microbiology<sup>1</sup>; Department of Inorganic and Analytical Chemistry<sup>2</sup>, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary



11.00-11.15

LIM-3

◆RÉKA CZINKÓCZKY, ÁRON NÉMETH

**INVESTIGATION ON THE BIOSURFACTANT PRODUCTION WITH *BACILLUS SUBTILIS* DSM10 AND *GEOBACILLUS STEAROTHERMOPHILUS* DSM2313 APPLYING RESPONSE SURFACE METHODOLOGY**

Department of Applied Biotechnology and Food Sciences, Budapest University of Technology and Economics, Budapest, Hungary

**11.15-11.30 Coffee break**

**11.30-12.45 Otto Wallach Food Microbiology Session**

**Wallach, Otto** (1847 – 1931), German chemist, recipient of the 1910 Nobel Prize in Chemistry for his work on alicyclic compounds. He was born in Königsberg, entered gymnasium in Potsdam. He studied chemistry at the University of Göttingen and received his doctoral degree there in 1869. He worked here and also at the University of Bonn with Friedrich Kekulé on the systematic analysis of terpenes present in essential oils. With his special methods (melting point comparison, stepwise derivatisation with addition reactions), he could crystallize some terpenes and thus determine the chemical structure. Several reactions are named after him (e.g. Wallach degradation, Leuckart-Wallach reaction, Wallach rearrangement). He is known also for Wallach's rule.

## Oral Presentations

Chairpersons: Tamás Papp, and Miklós Takó

11.30-11.45

FMO-1

◆MARGOT OTTO<sup>1</sup>, JÓZSEF GEML<sup>1</sup>, ÁDÁM ISTVÁN HEGYI<sup>1</sup>, JÚLIA HEGYI-KALÓ<sup>1</sup>, RIAN PIERNEEF<sup>2</sup>, MIKLÓS POGÁNY<sup>3</sup>, KÁLMÁN ZOLTÁN VÁCZY<sup>4</sup>

**THE TALE OF THE TWO-HEADED BEAST: METATRANSCRIPTOMIC ANALYSES REVEAL DIFFERENCES IN GENE EXPRESSION PROFILES OF *BOTRYTIS CINEREA* DURING NOBLE AND GRAY ROT DEVELOPMENT IN GRAPEVINE**

Centre for Research and Development<sup>1</sup>, Eszterházy Károly Catholic University, Eger, Hungary; Biotechnology Platform<sup>2</sup>, Agricultural Research Council-Onderstepoort Veterinary Research, Pretoria, South Africa; Centre for Agricultural Research<sup>3</sup>, Eötvös Loránd Research Network, Martonvásár; Food and Wine Research Institute<sup>4</sup>, Eszterházy Károly Catholic University, Eger, Hungary

11.45-12.00

FMO-2

◆BERNARD GITURA KIMANI<sup>1</sup>, PATRICK OTETE ANJECHÉ<sup>1</sup>, ERIKA BEÁTA KERÉKES<sup>1</sup>, CSILLA SZEBENYI<sup>2</sup>, JUDIT KRISCH<sup>3</sup>, TAMÁS PAPP<sup>2</sup>, CSABA VÁGVÖLGYI<sup>1</sup>, MIKLÓS TAKÓ<sup>1</sup>

**A NATURAL APPROACH AGAINST THE ACTIVITY OF FOOD SPOILAGE YEASTS: FOCUSING ON PLANT PHENOLICS**

Department of Microbiology<sup>1</sup>; MTA-SZTE “Lendület” Fungal Pathogenicity Mechanisms Research Group<sup>2</sup>, Faculty of Science and Informatics; Institute of Food Engineering<sup>3</sup>, Faculty of Engineering, University of Szeged, Szeged, Hungary

## Poster Presentations

12.00-12.05

FMP-1

◆BLAŽ JUG<sup>1</sup>, ANJA KLANČNIK<sup>1</sup>, POLONA JAMNIK<sup>1</sup>, MARJORIE FOURNIER<sup>2</sup>

**MODIFIED STRESS PROTEIN PROFILE OF *CAMPYLOBACTER JEJUNI* IN INTERACTION WITH FOOD SPOILER**

Chair of Biotechnology<sup>1</sup>, Microbiology and Food Safety, Department of Food Science, Biotechnical Faculty, University of Ljubljana, Ljubljana, Slovenia; Advanced Proteomics Facility<sup>2</sup>, Department of Biochemistry, University of Oxford, Oxford, GB



FMP-2

12.05-12.10

◆NOÉMI KISS, BETTINA VOLFFORD, HENRIETTA ALLAGA, MÓNIKA HOMA, SÁNDOR KOCSUBÉ, CSABA VÁGVÖLGYI

**CHARACTERIZATION OF A *SPORENDONEMA CASEI* ISOLATE, A RARE FUNGAL CONTAMINANT OF CHEESE**

Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

12.10-12.15

FMP-3

◆TAMÁS KOVÁCS<sup>1</sup>, BETTINA VOLFFORD<sup>1</sup>, DÓRA ANNA PAPP<sup>1</sup>, MÓNIKA VARGA<sup>1</sup>, BERNADETT LANGÓ<sup>2</sup>, ANDREA PALÁGYI<sup>2</sup>, CSABA VÁGVÖLGYI<sup>1</sup>, JUDIT KRISCH<sup>3</sup>, MIKLÓS TAKÓ<sup>1</sup>

**ENZYME-ASSISTED EXTRACTION OF PHENOLICS FROM *SORGHUM* SAMPLES**

Department of Microbiology<sup>1</sup>, Faculty of Science and Informatics, University of Szeged; Cereal Research Non-profit Ltd.<sup>2</sup>; Institute of Food Engineering<sup>3</sup>, Faculty of Engineering, University of Szeged, Szeged, Hungary

12.15-12.20

FMP-4

◆DINA RAMIĆ, IVANA VRCA, TEA BILUŠIĆ, IVICA BLAŽEVIĆ, SONJA SMOLE MOŽINA

**ARE VOLATILE ISOLATES CONTAINING GLUCOSINOLATE BREAKDOWN PRODUCTS OVERLOOKED IN TESTING THE ACTIVITY AGAINST MYCOTOXIGENIC *PENICILLIUM VERRUCOSUM*?**

Biotechnical Faculty, University of Ljubljana, Ljubljana, Slovenia

12.20-12.25

FMP-5

◆WEIZHE SUN, ERIKA BUJNA, QUANG DUC NGUYEN

**THE EFFECT OF WHEY PROTEIN AND DENATURED WHEY PROTEIN ON MICROENCAPSULATION OF *LACTOBACILLUS PLANTARUM* 299V BY LYOPHILIZATION**

Department of Bioengineering and Alcoholic Drink Technology, Hungarian University of Agriculture and Life Sciences, Budapest, Hungary

12.25-12.30

FMP-6

◆SZONJA IZABELLA TAKÁCS, HAJNALKA CSOMA, IDA MIKLÓS

**INVESTIGATION OF OENOLOGICAL PROPERTIES OF NON-*SACCHAROMYCES* YEASTS**

Department of Genetics and Applied Microbiology, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary

FMP-7

12.30-12.35

◆MIKLÓS TAKÓ<sup>1</sup>, FATMA TUNALI<sup>2</sup>, VALENTIN NAGY<sup>1</sup>, CAROLINA ZAMBRANO<sup>1</sup>, MÓNIKA VARGA<sup>1</sup>, ANDRÁS SZEKERES<sup>1</sup>, JUDIT KRISCH<sup>3</sup>, TAMÁS PAPP<sup>1,4</sup>, CSABA VÁGVÖLGYI<sup>1</sup>, OSMAN TUGAY<sup>5</sup>, ERIKA BEÁTA KEREKES<sup>1</sup>

**PRODUCTION OF BIOACTIVE PHENOLICS FROM HAWTHORN FRUIT MATERIAL SAMPLED IN TURKEY**

Department of Microbiology<sup>1</sup>, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary; Department of Biotechnology<sup>2</sup>, Konya Food and Agriculture University, Meram, Konya, Turkey; Institute of Food Engineering<sup>3</sup>, Faculty of Engineering; MTA-SZTE "Lendület" Fungal Pathogenicity Mechanisms Research Group<sup>4</sup>, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary; Department of Pharmaceutical Botany<sup>5</sup>, Faculty of Pharmacy, Selçuk University, Selçuklu, Konya, Turkey

FMP-8

12.35-12.40

◆RÓBERT TUPICZA, IDA MIKLÓS, TERÉZ BARNA

**IN VITRO ASSAY FOR IDENTIFYING CARBOHYDRATES WITH PREBIOTIC NATURE ON A PROBIOTIC STRAIN OF *LACTOBACILLUS PLANTARUM***

Department of Genetics and Applied Microbiology, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary





12.40-12.45

FMP-9

◆CSILLA VERES<sup>1</sup>, EPERKE GUDMON<sup>2</sup>, OTTÓ BENCSIK<sup>1</sup>, ANDRÁS SZEKERES<sup>1</sup>, CSABA VÁGVÖLGYI<sup>1</sup>, JUDIT KRISCH<sup>2</sup>

**EFFECT OF FIVE ESSENTIAL OILS ON THE AFLATOXIN PRODUCTION OF *ASPERGILLUS PARASITICUS* GROWN ON WHEAT SUBSTRATE**

Department of Microbiology<sup>1</sup>, Faculty of Science and Informatics; Institute of Food Engineering<sup>2</sup>, Faculty of Engineering, University of Szeged, Szeged, Hungary

**12.45-14.00 Lunch break**



**Sponsors and Exhibitors:**

**BioMarker Ltd.**

**Biotest Hungaria Ltd.**

**CheBio Development Ltd.**

