

PROGRAMME
of the

**6th 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) 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
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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 IInd 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^{1,2}, JUDIT HENCZKÓ^{1,2}, RÓBERT HERCZEG³, ANNA NAGY⁴, ESZTER RÓKA⁵, PÉTER URBÁN³, DÁNIEL DÉRI¹, ATTILA GYENESEI³, ZOLTÁN KIS¹, BERNADETT PÁLYI¹, EFOP 1.8.0 WORKING GROUP¹

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

National Biosafety Laboratory¹, National Public Health Center; Schools of PhD Studies², Semmelweis University, Budapest; Szentágothai Research Centre³, University of Pécs, Pécs; Department of Virology⁴; Department of Public Health Laboratory⁵, 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 TOPLAK¹, DANIJELA ČERNE¹, MIROSLAV PETROVEC², TOMISLAV PALLER³, MONIKA JEVŠNIK VIRANT²

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

Virology Unit¹, Institute of Microbiology and Parasitology, Veterinary Faculty; Institute of Microbiology and Immunology², Faculty of Medicine; National Veterinary Institute³, 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^{1,2}

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

Institute for Hygiene and Microbiology¹, University of Würzburg, Würzburg; National Reference Center for Invasive Fungal Infections NRZMyk², Leibniz Institute for Natural Product Research and Infection Biology, Hans-Knoell-Institute, Jena, Germany

9.30-10.00

SARS-9

◆DÁNIEL DÉRI^{1,2}, NÓRA MAGYAR^{1,3}, BERNADETT PÁLYI¹, DÁNIEL SÁNDOR VERES⁴, ZOLTÁN KIS¹, ERZSÉBET BARCSAY⁵

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

National Biosafety Laboratory¹, National Public Health Center; Doctoral School of Biology², Faculty of Science, ELTE-Eötvös Loránd University; Schools of PhD Studies³; Department of Biophysics and Radiation Biology⁴, Faculty of Medicine, Semmelweis University; Department of Virology⁵, 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

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 KOVÁCS¹, ÁGNES JAKAB², ÁGOTA RAGYÁK³, ZSÓFI SAJTOS³, FRUZSINA NAGY¹, EDINA BARANYAI³, ISTVÁN PÓCSI², LÁSZLÓ MAJOROS¹

TRANSCRIPTOMIC APPROACHES FOR THE FARNESOL EXPOSURE OF *CANDIDA AURIS*

Department of Medical Microbiology¹, Faculty of Medicine; Department of Molecular Biotechnology and Microbiology², Institute of Biotechnology; Agilent Atomic Spectroscopy Partner Laboratory³, Department of Inorganic and Analytical Chemistry, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary

11.15-11.30

MOP-2

◆ORSOLYA KEDVES¹, SÁNDOR KOCSUBÉ¹, TEODÓRA BATA¹, MARIA A. ANDERSSON², JOHANNA M. SALO², RAIMO MIKKOLA², HEIDI SALONEN², ATTILA SZÜCS¹, ALFONZ KEDVES³, ZOLTÁN KÓNYA³, CSABA VÁGVÖLGYI¹, DONÁT MAGYAR⁴, LÁSZLÓ KREDICS¹

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

Department of Microbiology¹, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary; Department of Civil Engineering², Aalto University, Aalto, Finland; Department of Applied and Environmental Chemistry³, Faculty of Science and Informatics, University of Szeged, Szeged; ⁴National Public Health Center, Budapest, Hungary

11.30-11.45

MOP-3

◆DÁNIEL G. KNAPP¹, GERGŐ TÓTH^{1,2}, PÉTER JÁNOS BEREK-NAGY^{1,3}, IMRE BOLDIZSÁR¹, MÁRTA KRASZNI², GALIYA AKHMETOVA¹, SÁNDOR CSÍKOS^{1,3}, JOSE G. MACIÁ-VICENTE⁴, ANDREA PORRAS-ALFARO⁵, IÑIGO ZABALGOGEAZCOA⁶, GÁBOR M. KOVÁCS¹

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

Department of Plant Anatomy¹, Institute of Biology, Faculty of Science, ELTE-Eötvös Loránd University; Department of Pharmaceutical Chemistry², Faculty of Pharmacy, Semmelweis University; National Public Health Center³, Budapest, Hungary; Plant Ecology and Nature Conservation⁴, Wageningen University & Research, Wageningen, The Netherlands; Department of Biological Sciences and Institute for Environmental Studies⁵, Western Illinois University, Macomb, Illinois, USA; Plant-Microorganism Interaction Research Group⁶, Institute of Natural Resources and Agrobiología of Salamanca (IRNASA-CSIC), Salamanca, Spain

11.45-12.00

MOP-4

◆BALÁZS VAJNA¹, DÁNIEL G. KNAPP², GÁBOR M. KOVÁCS²

ENDOPHYTIC PROKARYOTES OF DARK SEPTATE ENDOPHYTIC FUNGI REVEALED BY NGS METABARCODING

Department of Microbiology¹; Department of Plant Anatomy², Faculty of Science, Eötvös Loránd University, Budapest, Hungary

12.00-12.15

MOP-5

ERZSÉBET SÁNDOR¹, ISTVÁN KOLLÁTH², VIVIEN BIRÓ², ERZSÉBET FEKETE², ♦LEVENTE KARAFFA²

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

Department of Biochemical Engineering¹, Faculty of Science and Technology; Institute of Food Science², 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 SZILOVICS¹, ÉVA VERES¹, KRISZTINA BUZÁS^{2,3}, CSABA VÁGVÖLGYI¹, ATTILA GÁCSE^{1,4}

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

Department of Microbiology¹, Faculty of Science and Informatics; Faculty of Dentistry², University of Szeged; Synthetic and System Biology Unit³, Biological Research Centre, Eötvös Loránd Research Network; HCEMM-USZ Fungal Pathogens Research Group⁴, Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

13.35-13.40

MPP-2

♦TAMÁS TAKÁCS¹, TIBOR NÉMETH¹, CSABA VÁGVÖLGYI¹, DUNCAN WILSON², ATTILA GÁCSE^{3,4}

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

Department of Microbiology¹, Interdisciplinary Excellence Centre, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary; College of Life and Environmental Sciences², University of Exeter, Exeter, GB; HCEMM-USZ Fungal Pathogens Research Group³, MTA-SZTE "Lendület" "Mycobiome" Research Group⁴, Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

13.40-13.45

MPP-3

♦FLÓRA BOHNER¹, CSABA GERGŐ PAPP¹, RENÁTA TÓTH¹, ATTILA GÁCSE^{2,3}

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

Department of Microbiology¹; MTA-SZTE "Lendület" "Mycobiome" Research Group²; HCEMM-USZ Fungal Pathogens Research Group³, Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

13.45-13.50

MPP-4

♦FLÓRA BOHNER¹, CSABA GERGŐ PAPP¹, RENÁTA TÓTH¹, ATTILA GÁCSE^{2,3}

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

Department of Microbiology¹; MTA-SZTE "Lendület" "Mycobiome" Research Group²; HCEMM-USZ Fungal Pathogens Research Group³, Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

13.50-13.55

MPP-5

◆CSABA NAGY-KÖTELES¹, ZSIGMOND BENKŐ¹, ISTVÁN PÓCSI¹, ENDRE BARTA²

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

Department of Molecular Biotechnology and Microbiology¹; Department of Biochemistry and Molecular Biology², 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 BAUER¹, CSILLA SZEKENYI^{1,2}, SÁNDOR KISS¹, BERNADETT VÁGÓ¹, CSABA VÁGVÖLGYI¹, TAMÁS PAPP^{1,2}, GÁBOR NAGY^{1,2}

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

Department of Microbiology¹; MTA-SZTE "Lendület" Fungal Pathogenicity Mechanisms Research Group², 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 KARTALI¹, ILDIKÓ NYILASI¹, SÁNDOR KOCSUBÉ^{1,2}, ROLAND PATAI³, TAMÁS F. POLGÁR³, LÁSZLÓ BODAI⁴, NÓRA ZSINDELY¹, GÁBOR NAGY⁴, CSABA VÁGVÖLGYI¹, ◆TAMÁS PAPP^{1,2}

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

Department of Microbiology¹, Faculty of Science and Informatics; MTA-SZTE Fungal Pathogenicity Mechanisms Research Group², Hungarian Academy of Sciences and Department of Microbiology, University of Szeged; Institute of Biophysics³, Biological Research Centre, Szeged Centre of Excellence of the European Union, Eötvös Loránd Research Network; Department of Biochemistry and Molecular Biology⁴, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

14.20-14.25

MPP-11

◆CSILLA SZEBENYI¹, MÓNIKA VIRÁGH-HOMA¹, SÁNDOR KOCSUBÉ¹, DOROTTYA SÁRA NAGY¹, KARINA KISS¹, YISOU GU², ASHRAF S. IBRAHIM², RITA SINKA³, ROLAND PATAI⁴, LÁSZLÓ BODAI⁵, GÁBOR NAGY⁵, CSABA VÁGVÖLGYI¹, TAMÁS PAPP¹, GÁBOR NAGY¹

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

Department of Microbiology¹, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary; Los Angeles Biomedical Research Institute at Harbor-UCLA Medical Center², Torrance, California, USA; Department of Genetics³, Faculty of Science and Informatics, University of Szeged; Laboratory of Neuronal Plasticity⁴, Molecular Neurobiology Research Unit, Institute of Biophysics, Biological Research Centre, Eötvös Loránd Research Network; Department of Biochemistry and Molecular Biology⁵, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

14.25-14.30

MPP-12

◆BETTINA VOLFFORD¹, ZSANETT PAPP¹, GÁBOR NAGY^{1,2}, ALEXANDRA KOTOGÁN¹, CSABA VÁGVÖLGYI¹, TAMÁS PAPP^{1,2}, MIKLÓS TAKÓ¹

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

Department of Microbiology¹; MTA-SZTE "Lendület" Fungal Pathogenicity Mechanisms Research Group², 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_{xn}S, A PARALOGUE OF THE XANTHINE DEHYDROGENASE H_xA

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 KOCSIS¹, ÉVA LEITER¹, ISTVÁN PÓCSI¹, MI-KYUNG LEE², JAE-HYUK YU²

FUNCTIONAL ANALYSIS OF BZIP TRANSCRIPTION FACTORS IN *ASPERGILLUS NIDULANS*

Molecular Microbiology and Biotechnology¹, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary; Department of Bacteriology², 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^{1,2}, PETRA A. JÓNÁS¹, KÁROLY ANTAL³, ISTVÁN PÓCSI¹, TAMÁS EMRI¹

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

Department of Molecular Microbiology and Biotechnology¹; Doctoral School of Nutrition and Food Sciences², Faculty of Science and Technology, University of Debrecen, Debrecen; Department of Zoology³, 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 BAGI¹, CSABA VÁGVÖLGYI¹, ◆MÓNICA VÖRÖS¹, MÁRTON B. HÁZNAGY², ATTILA HUNYADI², MÁTÉ VÁGVÖLGYI²

INVESTIGATION OF THE ANTIMICROBIAL EFFECT OF ECDYSTEROID COMPOUNDS

Department of Microbiology¹, Faculty of Science and Informatics; Institute of Pharmacognosy², Faculty of Pharmacy, University of Szeged, Szeged, Hungary

15.45-15.50

MPP-22

◆ÁDÁM NOVÁK^{1,2}, ERIK ZAJTA^{1,2}, MÁTÉ CSIKÓS^{1,2}, EMESE HALMOS^{1,2}, CSABA VÁGVÖLGYI¹, ATTILA GÁCSER^{1,2,3}

INVESTIGATION OF THE INTERACTION OF KERATINOCYTES AND *CANDIDA* SPECIES

Department of Microbiology¹; MTA-SZTE "Lendület" "Mycobiome" Research Group²; HCEMM-USZ Fungal Pathogens Research Groups³, Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

15.50-15.55

MPP-23

◆BALÁZS SZÜCS¹, MÁTÉ VADOVICS¹, MÁRTON HORVÁTH¹, RÓBERT ALFÖLDI², LÁSZLÓ TISZLAVICZ³, LÁSZLÓ PUSKÁS², ATTILA GÁCSER^{4,5}

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

Department of Microbiology¹, Faculty of Science and Informatics, University of Szeged; AstridBio Technologies Ltd.²; Department of Pathology³, Faculty of Medicine, University of Szeged; MTA-SZTE "Lendület" "Mycobiome" Research Group⁴; HCEMM-USZ Fungal Pathogens Research Group⁵, 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^{1,2}, GERGŐ TÓTH³, IMRE BOLDIZSÁR¹, MÁRTA KRASZNI³, DÁNIEL G. KNAPP¹, GALIYA AKHMETOVA¹, GÁBOR M. KOVÁCS¹

NATURAL PRODUCTS OF THE ROOT ENDOPHYTIC FUNGUS *DARKSIDEA ALPHA*

Department of Plant Anatomy¹, Institute of Biology, Faculty of Science, ELTE-Eötvös Loránd University; National Public Health Center²; Department of Pharmaceutical Chemistry³, Faculty of Pharmacy, Semmelweis University, Budapest, Hungary

16.05-16.10

MPP-26

◆SÁNDOR CSIKOS¹, GERGŐ TÓTH², DÁNIEL G. KNAPP¹, IMRE BOLDIZSÁR¹, GÁBOR M. KOVÁCS¹

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

Department of Plant Anatomy¹, Institute of Biology, Faculty of Science, ELTE-Eötvös Loránd University; Department of Pharmaceutical Chemistry², Faculty of Pharmacy, Semmelweis University, Budapest, Hungary

16.10-16.15

MPP-27

◆ANNA MOLNÁR¹, DÁNIEL G. KNAPP², GERGŐ TÓTH^{2,3}, IMRE BOLDIZSÁR², KÁLMÁN ZOLTÁN VÁCZY¹, GÁBOR M. KOVÁCS²

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

Food and Wine Research Institute¹, Centre for Research and Development, Eszterházy Károly Catholic University, Eger; Department of Plant Anatomy², Institute of Biology, Faculty of Science, ELTE-Eötvös Loránd University; Department of Pharmaceutical Chemistry³, Faculty of Pharmacy, Semmelweis University, Budapest, Hungary

16.15-16.20

MPP-28

◆TORDA VARGA¹, KABIR G. PEAY², LÁSZLÓ G. NAGY¹

GENOME-BASED FUNCTIONAL CATEGORIZATION OF ECTOMYCORRHIZAL FUNGI

Biochemistry Institute¹, Biological Research Center, Eötvös Loránd Research Network, Szeged, Hungary; Department of Biology², Stanford University, Stanford, California, USA

16.20-16.25

MPP-29

◆ENIKŐ HORVÁTH¹, WALTER P. PFLIEGLER¹, KADMIEL PEREIRA¹, CINTIA ADÁCSI², TÜNDE PUSZTAHELYI², ISTVÁN PÓCSI¹

IDENTIFICATION AND COMMUNITY ANALYSIS OF YEASTS IN HUNGARIAN SILAGE SAMPLES

Department of Biotechnology and Microbiology¹, Faculty of Science and Technology; Central Laboratory², Faculty of Agricultural and Food Sciences and Environmental Management, University of Debrecen, Debrecen, Hungary

16.25-16.30

MPP-30

◆ZSOLT SPITZMÜLLER¹, XÉNIA KARÁCSONY-PÁLFI¹, ALEXANDRA PINTYE², ORSOLYA MOLNÁR², MÁRK Z. NÉMETH², LEVENTE KISS^{2,3}, GÁBOR M. KOVÁCS^{2,4}, KÁLMÁN Z. VÁCZY¹

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

Food and Wine Research Institute¹, Eszterházy Károly Catholic University, Eger; Plant Protection Institute², Centre for Agricultural Research, Eötvös Loránd Research Network, Budapest, Hungary; Centre for Crop Health³, University of Southern Queensland, Toowoomba, Queensland, Australia; Department of Plant Anatomy⁴, 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

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 GEML¹, ARNOLD BETSY², FRANCOIS LUTZON³

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

MTA-EKKE Lendület Environmental Microbiome Research Group¹, Eszterházy Károly Catholic University, Eger, Hungary; Department of Ecology and Evolutionary Biology², University of Arizona, Tucson, USA; Department of Biology³, Duke University, Durham; GB

10.00-10.15

EMO-2

◆BALÁZS VAJNA¹, DÁNIEL G. KNAPP², BÁLINT DIMA², ZOLTÁN SZALAI^{3,4}, GYÖRGY KRÖEL-DULAY⁵, GÁBOR M. KOVÁCS²

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

Department of Microbiology¹; Department of Plant Anatomy²; Department of Environmental and Landscape Geography³, Faculty of Science, Eötvös Loránd University; Research Centre for Astronomy and Earth Sciences, ⁴ Budapest; Institute of Ecology and Botany⁵, Centre for Ecological Research, Eötvös Loránd Research Network, Vácrátót, Hungary

10.15-10.30

EMO-3

◆ANDRÁS TÁNCICS¹, SINCHAN BANERJEE¹, ANDRÉ RODRIGUES SOARES², ALEXANDER PROBST², BALÁZS KRISZT³

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

Department of Molecular Ecology¹, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary; Aquatic Microbial Ecology², University of Duisburg-Essen, Essen, Germany; Department of Environmental Safety³, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary

10.30-10.45

EMO-4

◆ROLAND WIRTH¹, BERNADETT PAP¹, DÉNES DUDITS¹, BALÁZS KAKUK², ZOLTÁN BAGI², PRATEEK SHETTY¹, KORNÉL L. KOVÁCS^{2,3}, GERGELY MARÓTI^{1,4}

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

Institute of Plant Biology¹, Biological Research Centre, Eötvös Loránd Research Network; Department of Biotechnology², Faculty of Science and Informatics; Department of Oral Biology and Experimental Dental Research³, Faculty of Dentistry, University of Szeged, Szeged; Faculty of Water Sciences⁴, University of Public Service, Baja, Hungary

10.45-11.00

EMO-5

◆GORKHMAZ ABBASZADE^{1,2}, MARWENE TOUMI¹, RÓZSA FARKAS¹, KÁROLY BÓKA³, CSABA SZABÓ², ERIKA TÓTH¹

HEAVY METAL(LOID) BIOMINERALIZATION THROUGH MICROBIAL ACTIVITYT

Department of Microbiology¹; Lithosphere Fluid Research Laboratory²; Department of Plant Anatomy³, 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 SVÁB¹, LINDA FALGENHAUER², TÜNDE MAG³, TRINAD CHAKRABORTY⁴, ISTVÁN TÓTH¹

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

Enteric bacteriology and alimentary zoonoses¹, Veterinary Medical Research Institute, Budapest, Hungary; Institute of Hygiene and Environmental Medicine and German Center for Infection Research (DZIF)², Partner Site Giessen-Marburg-Langen, Giessen, Justus Liebig University Giessen, Germany; Department of Bacteriology³, Mycology and Parasitology Division of Microbiological Reference Laboratories, National Public Health Center, Budapest, Hungary; Institute of Medical Microbiology⁴, 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-TÓTH¹, ERVIN ALBERT², ALEXANDRA JUHÁSZ¹, ÁGOSTON GHIDÁN¹, JÁNOS JUHÁSZ^{1,3}, ANDREA HORVÁTH¹, ORSOLYA DOBAY¹

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

Institute of Medical Microbiology¹, Faculty of Medicine, Semmelweis University, Budapest; Department of Pathology², University of Veterinary Medicine, Üllő; Faculty of Information Technology and Bionics³, Pázmány Péter Catholic University, Budapest, Hungary

12.00-12.15

BOP-3

◆JÓZSEF BÁLINT NAGY¹, BALÁZS KOLESZÁR¹, BENCE BALÁZS², KATALIN KRISTÓF³, GÁBOR KARDOS²

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

Department of Medical Microbiology¹; Department of Metagenomics², Faculty of Medicine, University of Debrecen, Debrecen; Insitute of Laboratory Medicine³, Faculty of Medicine, Semmelweis University, Budapest, Hungary

12.15-12.30

BOP-4

◆BÁLINT TIMMER¹, BENCE BALÁZS², JÓZSEF BÁLINT NAGY¹, RITA SÁRKÓZI³, ATTILA KÁLMÁN⁴, GÁBOR KARDOS²

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 Microbiology¹; Department of Metagenomics², Faculty of Medicine, University of Debrecen, Debrecen; Private veterinarian³; Pig installation⁴, 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^{1,2}, DOMINIKA BALI¹, ÁGNES SOLTI-HODOVÁN¹, ALEKSA OBRADOVIĆ³, KATARINA GAŠIĆ⁴, EMILIO STEFANI⁵, IREM ALTIN⁵, CHELAPPAN GOPALAKRISHNAN⁶, LARS FIESELER⁷, SZABOLCS RAVASZ², GÁBOR RÁKHELY⁸

BACTERIOPHAGE-BASED BIOCONTROL AGAINST PLANT PATHOGENIC BACTERIA

Biotechnology¹, Enviroinvest Corp.; Biopesticide Ltd.², Pécs, Hungary; Plant Pathology Department³, Faculty of Agriculture, University of Belgrade, Belgrade-Zemun; Institute for Plant Protection and Environment⁴, Belgrade, Serbia; Departments of Life Sciences⁵, University of Modena and Reggio Emilia, Reggio Emilia, Italy; Department of Plant Pathology⁶, Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, India; Centre for Food Safety and Quality Management⁷, ZHAW School of Life Sciences and Facility Management, Wädenswil, Switzerland; Department of Biotechnology⁸, 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 TUMPA¹, BRANKA ŠEOL MARTINEC², ZRINKA ŠTRITOF², SELMA PINTARIC²

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

Department of Chemistry and Biochemistry¹; Department of Microbiology and Infectious Diseases with Clinic², 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 FARKAS¹, EDIT KASZAB¹, JÚLIA RADÓ¹, JUDIT HÁHN¹, GERGŐ TÓTH¹, PÉTER HARKAI¹, ÁRPÁD FERINCZ¹, ZSÓFIA LOVÁSZ², ANDRÁS TÁNCICS¹, LAJOS VÖRÖS³, BALÁZS KRISZT¹, SÁNDOR SZOBOSZLAY¹

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

Institute of Aquaculture and Environmental Safety¹, Hungarian University of Agriculture and Life Sciences, Gödöllő; Department Kis-Balaton², West-transdanubian Water Directorate, Keszthely; Balaton Limnological Research Institute³, Tihany, Hungary

15.15-15.30

EMO-7

◆MARSEJ MARKOVSKI¹, MARINO KORLEVIĆ¹, GERHARD J. HERNDL^{2,3,4}, MIRJANA NAJDEK¹

DYNAMICS OF SEDIMENT MICROBIAL COMMUNITIES DURING A SEAGRASS MEADOW DECLINE

Center for Marine Research¹, Ruđer Bošković Institute, Rovinj, Croatia; Department of Functional and Evolutionary Ecology², University of Vienna, Vienna, Austria; Department of Marine Microbiology and Biogeochemistry³, Royal Netherlands Institute for Sea Research (NIOZ), Utrecht University, Den Burg, The Netherlands; Vienna Metabolomics Centre⁴, University of Vienna, Vienna, Austria

15.30-15.45

EMO-8

◆ATTILA SZABÓ^{1,2}, ZSUZSANNA MÁRTON³, BIANKA CSITÁRI³, EMIL BOROS¹, MORITZ BUCK², ALEXANDER EILER⁴, STEFAN BERTILSSON², TAMÁS FELFÖLDI^{1,3}, ANNA J. SZÉKELY²

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

Institute of Aquatic Ecology¹, Centre for Ecological Research, Eötvös Loránd Research Network, Budapest, Hungary; Department of Aquatic Sciences and Assessment², Swedish University of Agricultural Sciences (SLU), Uppsala, Sweden; Department of Microbiology³, Faculty of Science, ELTE-Eötvös Loránd University, Budapest, Hungary; Department of Biosciences⁴, University of Oslo, Oslo, Norway

15.45-16.00

EMO-9

◆KRISTÓF KORPONAI¹, ATTILA SZABÓ¹, SÁRA SZURÓCZKI¹, BOGLÁRKA SOMOGYI², NÓRA SZABÓ-TUGYI², KÁROLY MÁRIALIGETI¹, TAMÁS FELFÖLDI¹

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

Department of Microbiology¹, Faculty of Science, ELTE-Eötvös Loránd University, Budapest; Balaton Limnological Research Institute², Eötvös Loránd Research Network, Tihany, Hungary

16.00-16.15

EMO-10

◆TAMÁS FELFÖLDI^{1,2}, ANNA BEDICS², BIANKA CSITÁRI², EMIL BOROS¹, ISTVÁN MÁTHÉ³, ANNA J. SZÉKELY⁴

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

Institute of Aquatic Ecology¹, Centre for Ecological Research, Tihany; Department of Microbiology², Faculty of Science, ELTE-Eötvös Loránd University, Budapest, Hungary; Department of Bioengineering³, Sapientia Hungarian University of Transylvania, Miercurea Ciuc, Romania; Department of Ecology and Genetics/Limnology⁴, Uppsala University EBC, Uppsala, Sweden

16.15-16.30

EMO-11

◆MARWENE TOUMI¹, RÓZSA FARKAS¹, ISTVÁN MÁTHÉ², ÁDÁM TÓTH³, ERIKA TÓTH¹

MOLECULAR STUDIES TO REVEAL THE MICROBIAL COMMUNITIES OF OLIGOTROPHIC ENVIRONMENTS

Department of Microbiology¹, Faculty of Science, ELTE-Eötvös Loránd University, Budapest, Hungary; Socio-human Sciences and Engineering², Sapientia Hungarian University of Transylvania, Csíkszereda, Romania; József & Erzsébet Tóth Endowed Hydrogeology Chair³, 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 ADÁCSI¹, TÜNDE PUSZTAHELYI², SZILVIA KOVÁCS²

MYCOTOXIN RESISTANCE AND ELIMINATION CAPABILITY OF *KLEBSIELLA PNEUMONIAE*

Doctoral School of Nutrition and Food Sciences¹; Central Laboratory of Agricultural and Food Products², Faculty of Agricultural and Food Sciences and Environmental Management, University of Debrecen, Debrecen, Hungary

9.05-9.10

AMP-2

◆HENRIETTA ALLAGA¹, ANUAR R. ZHUMAKAYEV¹, RITA BÜCHNER¹, SÁNDOR KOCSUBÉ², ATTILA SZÜCS², LÁSZLÓ KREDICS², CSABA VÁGVÖLGYI², LÓRÁNT HATVANI²

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

Doctoral School of Biology¹; Department of Microbiology², Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

9.10-9.15

AMP-3

◆HENRIETTA ALLAGA¹, DÓRA HORKICS², ÁDÁM BORDÉ², ANDRÁS VARGA², TAMÁS MARIK², JUDIT BAJZÁT³, NÓRA BAKOS-BARCZI³, CSABA NAGY-KÖTELES³, CSABA CSUTORÁS³, LÓRÁNT HATVANI², LÁSZLÓ KREDICS², CSABA VÁGVÖLGYI²

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

Doctoral School of Biology¹; Department of Microbiology², Faculty of Science and Informatics, University of Szeged, Szeged; ÚjChampignons Ltd.³, 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 GEIGER¹, ZOLTÁN KARÁCSONYI¹, RICHARD GOLEN¹, KÁLMÁN ZOLTÁN VÁCZY¹, JÓZSEF GEML²

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 Sciences¹; MTA-EKKE Lendület Environmental Microbiome Research Group², Eszterházy Károly Catholic University, Eger, Hungary

9.25-9.30

AMP-6

◆LÁSZLÓ KREDICS¹, VIKTOR DÁVID NAGY¹, ADRIENN SZARVAS², ANUAR R. ASHRAFAYEV¹, MÓNKA VÖRÖS¹, MÓNKA VARGA¹, ANDRÁS SZEKERES¹, LÓRÁNT HATVANI¹, ÁDÁM BORDÉ^{1,2}, FERENC LANTOS², CSABA VÁGVÖLGYI¹, TAMÁS MONOSTORI²

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

Department of Microbiology¹, Faculty of Science and Informatics, Szeged; Institute of Plant Sciences and Environmental Protection², Faculty of Agriculture, University of Szeged, Hódmezővásárhely, Hungary

9.30-9.35

AMP-7

◆LÁSZLÓ KREDICS¹, TAMÁS MARIK¹, DÓRA BALÁZS¹, CHETNA TYAGI¹, DÁVID RÓZSA¹, ÁGNES SZEPESI², LÁSZLÓ BAKACSY², CSABA VÁGVÖLGYI¹, MÓNKA VARGA¹, ANDRÁS SZEKERES¹

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

Department of Microbiology¹; Department of Plant Biology², 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 MEGYES¹, ANDREA K. BORSODI¹, TAMÁS ÁRENDÁS², KÁROLY MÁRIALIGETI¹

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

Department of Microbiology¹, Faculty of Science, ELTE-Eötvös Loránd University, Budapest; Crop Production Department², Agricultural Institute, Centre for Agricultural Research, Eötvös Loránd Research Network, Martonvásár, Hungary

9.45-9.50

AMP-10

◆ANNA MOLNÁR¹, ZSOLT ZSÓFI², ADRIENN GEIGER^{1,3}, CARLA MOTA LEAL^{3,4}, GLODIA MANTWA KGOBE^{3,4}, ADRIENN TÓTH², SZABOLCS VILLANGÓ², JÓZSEF GEML^{1,4}

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

Food and Wine Research Institute¹, Centre for Research and Development; Institute for Viticulture and Enology², Eszterházy Károly Catholic University, Eger; Doctoral School of Environmental Sciences³, Hungarian University of Agricultural and Life Sciences, Gödöllő; MTA-EKKE Lendület Environmental Microbiome Research Group⁴, Eszterházy Károly Catholic University, Eger, Hungary

9.50-9.55

AMP-11

◆CARLA MOTA LEAL¹, ADRIENN GEIGER², JÓZSEF GEML^{1,2}

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 Group¹; Food and Wine Research Institute², 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 PAPP¹, HILDA VASS¹, GYÖRGYI VÁRADI², GÁBOR K. TÓTH^{2,3}, LÁSZLÓ GALGÓCZY^{1,4}, PÉTER POÓR⁵, ◆LILIÁNA TÓTH¹

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

Department of Biotechnology¹, Faculty of Science and Informatics; Department of Medical Chemistry², Faculty of Medicine; MTA-SZTE Biomimetic Systems Research Group³, Faculty of Science and Informatics, University of Szeged; Institute of Biochemistry⁴, Biological Research Centre, Eötvös Loránd Research Network; Department of Plant Biology⁵, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

10.25-10.30

AMP-18

◆VI VU¹, CSILLA FARKAS¹, RIYAD OUAHAB¹, ERIKA BUJNA¹, VIJAI KUMAR GUPTA², QUANG DUC NGUYEN¹

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

Hungarian University of Agriculture and Life Sciences¹, Budapest, Hungary; Biorefining and Advanced Materials Research Center², Scotland's Rural College (SRUC), Edinburgh, GB

10.30-10.35

AMP-19

◆GALIYA AKHMETOVA^{1,2}, DÁNIEL G. KNAPP¹, SAMAD ASHRAFI³, WOLFGANG MAIER³, ORSOLYA MOLNÁR⁴, GÁBOR M. KOVÁCS^{1,4}

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

Department of Plant Anatomy¹, Institute of Biology, Faculty of Science, ELTE-Eötvös Loránd University, Budapest, Hungary; Scientific Production Centre for Grain Farming², Shortandy, Kazakhstan; Julius Kühn-Institut³, Federal Research Centre for Cultivated Plants, Institute for Epidemiology and Pathogen Diagnostics, Braunschweig, Germany; Plant Protection Institute⁴, 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 CO₂ 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 GEML¹, JÓZSEF SULYOK²

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 Group¹, Eszterházy Károly Catholic University; Bükk National Park Directorate², Eger, Hungary

11.35-11.40

EMP-2

MARINO KORLEVIĆ¹, ◆MARSEJ MARKOVSKI¹, ZIHAO ZHAO², GERHARD J. HERNDL^{2,3,4}, MIRJANA NAJDEK¹

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

Center for Marine Research¹, Ruđer Bošković Institute, Rovinj, Croatia; Department of Functional and Evolutionary Ecology², University of Vienna, Vienna, Austria; Department of Marine Microbiology and Biogeochemistry³, Royal Netherlands Institute for Sea Research (NIOZ), Utrecht University, Den Burg, The Netherlands; Vienna Metabolomics Centre⁴, 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 SCHNEIDER¹, ISTVÁNNÉ BÁTAI¹, ISTVÁN BÁTAI², LÁSZLÓ KÖRÖSI³, DORINA PÁSZTOR¹

ISOLATION OF BACTERIA WITH ELECTROACTIVE POTENTIALS

Department of Medical Microbiology and Immunology¹; Department of Anaesthesiology and Intensive Therapy², Medical School; Research Institute for Viticulture and Oenology³, Faculty of Science, University of Pécs, Pécs, Hungary

11.50-11.55

EMP-5

◆HENDRIK WALTHER¹, KORNÉLIA ALMÁSI², ANDRÁS TÁNCICS²

ENRICHMENT AND ISOLATION OF SULFUR-OXIDIZING BACTERIA FROM A BIOFILTER TREATING H₂S-CONTAINING AIR

W+T Ltd. ¹, Szigetszentmárton; Department of Molecular Ecology², Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary

11.55-12.00

EMP-6

MÁRTON PÁPAI¹, ANNA BEDICS¹, ANDRÁS TÁNCICS¹, ADRIENN BALÁZS², GERGELY MARÓTI³, ROLAND WIRTH³, BALÁZS KRISZT⁴, OFIR MENASHE^{5,6}, ◆TIBOR BENEDEK¹

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

Department of Molecular Ecology¹; Department of Environmental Toxicology², Institute of Aquaculture and Environmental Safety, Hungarian University of Agriculture and Life Sciences, Gödöllő; Institute of Plant Biology³, Biological Research Center, Eötvös Loránd Research Network, Szeged; Department of Environmental Safety⁴, Institute of Aquaculture and Environmental Safety, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary; Water Industry Engineering Department⁵, Achi Racov School of Engineering, Kinneret Academic College on the Sea of Galilee, Zemach; BioCastle Water Technologies Ltd. ⁶, Jordan Valley, Israel

12.00-12.05

EMP-7

◆ANNA BEDICS¹, SINCHAN BANERJEE¹, KORNÉLIA ALMÁSI¹, TIBOR BENEDEK¹, BALÁZS KRISZT², ANDRÁS TÁNCICS¹

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

Department of Molecular Ecology¹; Department of Environmental Safety², Institute of Aquaculture and Environmental Safety, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary

12.05-15.10

EMP-8

◆SINCHAN BANERJEE¹, ANNA BEDICS¹, BALÁZS KRISZT², ANDRÁS TÁNCICS¹

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 Ecology¹; Department of Environmental Safety², Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary

12.10-12.15

EMP-9

◆MÁRTON PÁPAI¹, ANDRÁS TÁNCICS¹, DAOOD HUSSEIN², GERGELY MARÓTI³, BALÁZS KRISZT⁴, OFIR MENASHE^{5,6}, TIBOR BENEDEK¹

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

Department of Molecular Ecology¹, Institute of Aquaculture and Environmental Safety; Laboratories of Food Analysis², Institute of Horticultural Sciences, Hungarian University of Agriculture and Life Science, Gödöllő; Institute of Plant Biology³, Biological Research Center, Eötvös Loránd Research Network, Szeged; Department of Environmental Safety⁴, Institute of Aquaculture and Environmental Safety, Hungarian University of Agriculture and Life Science, Gödöllő, Hungary; Water Industry Engineering Department⁵, Achi Racov School of Engineering, Kinneret Academic College on the Sea of Galilee, Zemach; BioCastle Water Technologies⁶, 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 KOVÁCS¹, CSILLA SZÜCS¹, ZOLTÁN BAGI¹, GÁBOR RÁKHELY^{1,2}, KORNÉL L. KOVÁCS^{1,3}

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

Biotechnology Department¹, Faculty of Science and Informatics, University of Szeged; Institute of Biophysics², Biological Research Centre, Eötvös Loránd Research Network; Department of Oral Biology and Experimental Dental Research³, Faculty of Dentistry, University of Szeged, Szeged, Hungary

12.25-12.30

EMP-12

◆ZSÓFIA TISCHNER¹, RÉKA KAKUCS², TAMÁS SZIGETI², ISTVÁN SZABÓ¹, BALÁZS KRISZT¹, DONÁT MAGYAR²

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

Institute of Aquaculture and Environmental Safety¹, Hungarian University of Agriculture and Life Sciences, Gödöllő; National Public Health Center², 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 MEDVEGY¹, MELINDA MEGYES¹, ANDREA K. BORSODI¹, BALÁZS NAGY²

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

Department of Microbiology¹; Department of Physical Geography², Faculty of Science, ELTE-Eötvös Loránd University, Budapest, Hungary

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 FRIC¹, ARIJANA FILIPIĆ², POLONA KOGOVŠEK¹, OLIVIJA PLOHL³, LIDIJA FRAS ZEMLJIČ³

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

National Institute of Biology¹; Department of Biotechnology and Systems Biology², National Institute of Biology, Ljubljana; Faculty of Mechanical Engineering³, 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 NAGY¹, NIKOLETT CSONKA¹, ♦MÁRIA TAKÁCS^{1,2}, ESZTER MEZEI³, ÉVA BARABÁS⁴

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

National Reference Laboratory for Viral Zoonoses¹, Division of Microbiological Reference Laboratories, National Public Health Center; Institute of Medical Microbiology², Faculty of Medicine, Semmelweis University; Department of Communicable Diseases Epidemiology and Infection Control³, National Public Health Center; Confirmatory Laboratory⁴, 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-KOTOGÁN¹, ZSÓFIA FURKA¹, BETTINA VOLFFORD¹, MÓNICA VARGA¹, TAMÁS PAPP², CSABA VÁGVÖLGYI¹, MIKLÓS TAKÓ¹

ENZYMATIC PRODUCTION OF BIOACTIVE FATTY ACIDS FROM VEGETABLE AND FISH OILS

Department of Microbiology¹; MTA-SZTE "Lendület" Fungal Pathogenicity Mechanisms Research Group², 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^{1,2}, CSENGE KASUBA¹, CSABA VÁGVÖLGYI¹, ANDRÁS SZEKERES¹

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

Department of Microbiology¹; Doctoral School in Biology², Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

15.20-15.25

IMP-5

◆CSILLA DARÓCZI^{1,2}, VIVIEN BÍRÓ¹, LEVENTE KARAFFA¹, ERZSÉBET FEKETE¹, JÁNOS ELEK²

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 Engineering¹, Faculty of Science and Technology, University of Debrecen; Science Port Ltd.², 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-LEIZER¹, ERIK KÉSMÁRKI¹, MÁTÉ HÁRI¹, RÓZSA MÁTÉ¹, ZSOLT BEREZKY², JÓZSEF KUTASI¹, ÉVA KÁRPÁTI¹

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

BioFil Microbiological, Biotechnological and Biochemical Ltd.¹; Saniplant Ltd.², 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^{1,2}, MÓNKA VÖRÖS¹, BALÁZS LEITGEB³, CSABA VÁGVÖLGYI¹, ANDRÁS SZEKERES¹

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

Department of Microbiology¹; Doctoral School in Biology², Faculty of Science and Informatics, University of Szeged; Institute of Biophysics³, 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 BALI¹, NÓRA SZAMEK¹, ÁGNES SOLTI-HODOVÁN¹, CSILLA NÉMETH¹, SZILVIA PAPP¹, ILDIKÓ VARGA¹, GYÖRGY SCHNEIDER³, LÁSZLÓ MAKRAI⁴, SARSHAD KODERI VALAPPIL⁵, GÁBOR RÁKHELY⁵, ◆TAMÁS KOVÁCS^{1,2}

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

Biotechnology, Enviroinvest Corp.¹; Biopesticide Ltd.²; Department of Medical Microbiology and Immunology³, Medical School, University of Pécs, Pécs; Department of Microbiology and Infectious Diseases⁴, University of Veterinary Medicine, Budapest; Department of Biotechnology⁵, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

16.15-16.20

BPP-4

◆BETTINA SCHWEITZER¹, GYÖRGY HORVÁTH², VIKTÓRIA LILLA BALÁZS², ANNA MAYER³, GYÖRGY SCHNEIDER¹

ANTIBACTERIAL EFFECTS OF ESSENTIAL OILS AGAINST *CUTIBACTERIUM ACNES*

Department of Medical Microbiology and Immunology¹; Institute of Pharmacognosy²; Department of Pharmaceutics and Central Clinical Pharmacy³, Medical School, University of Pécs, Pécs, Hungary

16.20-16.25

BPP-5

BAKHTIYAR MAHMOOD¹, ZAIN BAAITY¹, DAVID LEITSCH², KATALIN BURIÁN¹, ELISABETH NAGY¹, ◆JÓZSEF SÓKI¹

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 Microbiology¹, Faculty of Medicine, University of Szeged, Szeged, Hungary; Institute of Tropical Medicine and Hygiene², 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. KUZNETSOVA¹, LARISA YUR'IEVNA NESTEROVA¹, IRINA LEONIDOVNA MASLENNIKOVA¹, YULIYA SAGITOVNA POSPELOVA¹, ELISAVETA VIKTOROVNA AFANAS'EVSKAYA², VALERIY ALEKSANDROVICH NESCHISLYAEV³, ♦MARJANCA STARČIČ ERJAVEC⁴

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

Institute of Ecology and Genetics of Microorganisms¹, Ural Branch Russian Academy of Sciences; Perm State Medical University Named after Academician E. A. Wagner²; The Federal State Unitary Enterprise "Scientific and Production Association for Immunological Preparations Microgen" of the Ministry of Health of the Russian Federation³, Perm, Russia; Biotechnical Faculty⁴, University of Ljubljana, Ljubljana, Slovenia

16.35-16.40

BPP-8

♦NIKOLETTA SZEMERÉDI¹, ANNAMÁRIA KINCSES¹, GÁBOR TÓTH¹, ENRIQUE DOMINGUEZ-ALVAREZ², GABRIELLA SPENGLER¹

SELENOESTERS AS EFFLUX PUMP INHIBITORS IN BACTERIA AND CANCER CELLS

Department of Medical Microbiology¹, Albert Szent-Györgyi Health Center and Faculty of Medicine, University of Szeged, Szeged, Hungary; Institute of General Organic Chemistry², Spanish National Research Council, (IQOG-CSIC), Madrid, Spain

16.40-16.45

BPP-9

BOGLÁRKA JUHÁSZ¹, CSABA VÁGVÖLGYI¹, GÁBOR GIRST², ATTILA HUNYADI², MÁTÉ VÁGVÖLGYI², ♦MÓNKA VÖRÖS¹

INVESTIGATION OF THE ANTIMICROBIAL EFFECTS OF PROTOFLAVONOID COMPOUNDS

Department of Microbiology¹, Faculty of Science and Informatics; Institute of Pharmacognosy², 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 KRISTÓF¹, EMESE JUHÁSZ¹, ESZTER OSTORHÁZI², DÓRA SZABÓ²; 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 Medicine¹; Institute of Medical Microbiology², Semmelweis University, Budapest, Hungary

9.30-9.45

MDO-4

◆ORSOLYA STRANG¹, NOÉMI NIKOLETT GÖNCZI¹, MELINDA MADLÉNA¹, ZOLTÁN BARÁTH¹, GÁBOR RÁKHELYI^{1,2}, ZOLTÁN BAGI^{1,2}, KORNÉL L. KOVÁCS¹

ORAL PROBIOTICS FOR POTENTIAL HEALTHCARE APPLICATIONS

Department of Biotechnology¹, Faculty of Science and Informatics, University of Szeged; Institute of Biophysics², Biological Research Centre, Eötvös Loránd Research Network, Szeged, Hungary

9.45-10.00

MDO-5

◆DRAGAN BRNIĆ¹, DANIEL ČOLIĆ^{1,2}, NINA KREŠIĆ¹, ŽELJKO MIHALJEVIĆ¹, TIBOR ANDREÁNSZKY³, DAVOR BALIĆ⁴, MARICA LOLIĆ⁴

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

Virology, Croatian Veterinary Institute¹; Department of Biology², Faculty of Science, University of Zagreb, Zagreb; Veterinary Department Rijeka³, Croatian Veterinary Institute, Rijeka; Veterinary Department Vinkovci⁴, Croatian Veterinary Institute, Vinkovci, Croatia

10.00-10.15

MDO-6

◆MOJCA JANC¹, KAJA ZEVIK¹, MAJA ŠTALEKAR¹, MAGDA TUŠEK ŽNIDARIČ¹, NEJC KOŠIR^{1,2}, TJAŠA JAKOMIN¹, REBECCA VOLLMEIER KOVAČIČ^{1,2}, NIKA SAVODNIK¹, POLONA KOGOVŠEK^{1,2}, DAVID DOBNIK^{1,2}

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

Department for Systems Biology and Biotechnology¹, National Institute of Biology; Niba Labs Ltd.², 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 VERES¹, ZÓRA SZILOVICS¹, DÓRA ADAMECZ², MÁTÉ VADOVICS¹, KRISZTINA BUZÁS^{3,4}, NÓRA IGÁZ², CSABA VÁGVÖLGYI¹, MÓNKA KIRICSI², ATTILA GÁCSÉR^{5,6}

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

Department of Microbiology¹; Department of Biochemistry and Molecular Biology², Faculty of Science and Informatics, University of Szeged; Synthetic and System Biology Unit³, Biological Research Centre (BRC), Eötvös Loránd Research Network; Faculty of Dentistry⁴; HCEMM-USZ Fungal Pathogens Research Group⁵; MTA-SZTE "Lendület" Mycobiome Research Group⁶, 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 IMRE¹, HANNA VIKTÓRIA RÁCZ¹, PÉTER OLÁH^{2,3}, ZSUZSA ANTUNOVICS⁴, ILONA DÓCZI⁵, RENÁTÓ KOVÁCS^{6,7}, LÁSZLÓ MAJOROS⁶, ISTVÁN PÓCSI¹, KSENJA LOPANDIČ⁸, DEVIN BENDIXSEN⁹, RIKE STELKENS⁹, ◆WALTER P. PFLIEGLER¹

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

Department of Molecular Biotechnology and Microbiology¹, Faculty of Science and Technology; University of Debrecen, Debrecen; Department of Dermatology, Venereology and Oncodermatology², Medical School, University of Pécs, Pécs, Hungary; Department of Dermatology³, University Hospital of Düsseldorf, Düsseldorf, Germany; Department of Genetics and Applied Microbiology⁴, Faculty of Science and Technology, University of Debrecen, Debrecen; Institute of Clinical Microbiology⁵, Faculty of Medicine, University of Szeged, Szeged; Department of Medical Microbiology⁶, Faculty of Medicine; Faculty of Pharmacy⁷, University of Debrecen, Debrecen, Hungary; Institute of Biotechnology⁸, University of Natural Resources and Life Sciences, Vienna, Austria; Department of Zoology⁹, Stockholm University, Stockholm, Sweden

11.45-12.00

MDO-11

◆ALEXANDRA IMRE¹, RENÁTÓ KOVÁCS², KITTI PÁZMÁNDI³, ÁGNES JAKAB¹, HANNA V. RÁCZ¹, DÁNIEL NEMES⁴, ILONA DÓCZI⁵, ILDIKÓ BÁCISKAY⁴, ATTILA GÁCSE⁶, ZOLTÁN FARKAS⁷, KÁROLY KOVÁCS⁷, LÁSZLÓ MAJOROS², ISTVÁN PÓCSI¹, WALTER P. PFLIEGLER¹

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

Department of Molecular Biotechnology and Microbiology¹, Faculty of Science and Technology; Department of Medical Microbiology²; Department of Immunology³, Faculty of Medicine; Department of Pharmaceutical Technology⁴, Faculty of Pharmacy, University of Debrecen, Debrecen; Department of Clinical Microbiology⁵, Faculty of Medicine; Department of Microbiology⁶, Faculty of Science and Informatics, University of Szeged, Szeged; Synthetic and Systems Biology Unit⁷, Institute of Biochemistry, Biological Research Centre, Eötvös Loránd Research Network, Szeged, Hungary

12.00-12.15

MDO-12

LILIÁNA TÓTH¹, GERGELY KOHUT^{2,3}, TAMÁS BEKE-SOMFAI², ANDRÁS CZAJLIK⁴, GÁBOR BENDE¹, ZOLTÁN KELE⁵, GÁBOR RÁKHELY^{1,6}, FLORENTINE MARX⁷, GYULA BATTÁ⁴, ◆LÁSZLÓ GALGÓCZY¹

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

Department of Biotechnology¹, Faculty of Science and Informatics, University of Szeged, Szeged; Institute of Materials and Environmental Chemistry², Research Centre for Natural Sciences, Eötvös Loránd Research Network; MTA-ELTE Research Group of Peptide Chemistry³, Faculty of Science, Eötvös Loránd University, Budapest; Department of Organic Chemistry⁴, Faculty of Science and Technology, University of Debrecen, Debrecen; Department of Medical Chemistry⁵, Faculty of Medicine, University of Szeged; Institute of Biophysics⁶, Biological Research Centre, Eötvös Loránd Research Network, Szeged, Hungary; Institute of Molecular Biology⁷, 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 KARÁCSONY¹, DÁNIEL G. KNAPP^{1,2,3}, SZABINA LENGYEL¹, GÁBOR M. KOVÁCS^{1,2,3}, KÁLMÁN ZOLTÁN VÁCZY¹

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

Food and Wine Research Institute¹, Eszterházy Károly Catholic University, Eger; Department of Plant Anatomy², Institute of Biology, Faculty of Science, ELTE-Eötvös Loránd University, Budapest; Plant Protection Institute³, Centre for Agricultural Research, Eötvös Loránd Research Network, Budapest, Hungary

8.45-9.00

WAO-2

◆FRUZSINA MATOLCSI^{1,2}, ÁRON N. HORVÁTH¹, ORSOLYA MOLNÁR¹, MÁRK Z. NÉMETH¹, LEVENTE KISS^{1,4}, KÁLMÁN Z. VÁCZY³, GÁBOR M. KOVÁCS^{1,2}, ALEXANDRA PINTYE¹

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

Centre for Agricultural Research¹, Eötvös Loránd Research Network, Martonvásár; Department of Plant Anatomy², Institute of Biology, Faculty of Science, ELTE-Eötvös Loránd University, Budapest; Food and Wine Research Institute³, Eszterházy Károly Catholic University, Eger, Hungary; Centre for Crop Health⁴, Institute for Life Sciences and the Environment, University of Southern Queensland, Toowoomba, Australia

9.00-9.15

WAO-3

◆ILDIKÓ IMREFI¹, PETRA LENGYEL¹, SÁRA HORVÁTH¹, GÁBOR HERCZEG², DÁNIEL G. KNAPP¹, GÁBOR M. KOVÁCS^{1,3}

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

Department of Plant Anatomy¹; Department of Systematic Zoology and Ecology², Institute of Biology, Faculty of Science, ELTE-Eötvös Loránd University; Plant Protection Institute³, Centre for Agricultural Research, Eötvös Loránd Research Network, Budapest, Hungary

9.15-9.30

WAO-4

◆RITA BÜCHNER¹, MÓNIKA VÖRÖS¹, HENRIETTA ALLAGA¹, JUDIT BAJZÁT², NÓRA BAKOS-BARCZI², CSABA NAGY-KÖTELES², CSABA CSUTORÁS³, LÓRÁNT HATVANI¹, CSABA VÁGVÖLGYI¹, LÁSZLÓ KREDICS¹

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

Department of Microbiology¹, Faculty of Science and Informatics, University of Szeged, Szeged; ÚjChampignons Ltd.², Budapest; Department of Chemistry and Food Chemistry³, Institute of Food Sciences, Eszterházy Károly Catholic University, Eger, Hungary

9.30-9.45

WAO-5

♦KATALIN BERECZKI¹, MELINDA MEGYES², TIBOR SZILI-KOVÁCS³, KRISTÓF KORPONAI², KÁROLY MÁRIALIGETI²

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

Department of Ecology and Silviculture¹, University of Sopron-Forest Research Institute, Sárvár; Department of Microbiology², Faculty of Science, ELTE-Eötvös Loránd University, Budapest; Institute for Soil Sciences and Agricultural Chemistry³, Centre for Agricultural Research, Budapest, Hungary

9.45-10.00

WAO-6

♦TIBOR SZILI-KOVÁCS¹, MÁRTON MUCSI¹, MELINDA MEGYES², KÁROLY MÁRIALIGETI², TAMÁS ÁRENDÁS¹, ANDREA K. BORSODI²

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

Institute for Soil Sciences¹, Centre for Agricultural Research, Eötvös Loránd Research Network, Martonvásár; Department of Microbiology², 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 HAMARI¹, ESZTER BOKOR¹, JUDIT ÁMON¹, ZSÓFIA HEGEDŰS¹, MÓNIKA VARGA¹, ANDRÁS SZEKERES¹, TAMÁS JAKUSCH², CSABA VÁGVÖLGYI¹

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

Department of Microbiology¹; Department of Inorganic and Analytical Chemistry², 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 OTTO¹, JÓZSEF GEML¹, ÁDÁM ISTVÁN HEGYI¹, JÚLIA HEGYI-KALÓ¹, RIAN PIERNEEF², MIKLÓS POGÁNY³, KÁLMÁN ZOLTÁN VÁCZY⁴

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 Development¹, Eszterházy Károly Catholic University, Eger, Hungary; Biotechnology Platform², Agricultural Research Council-Onderstepoort Veterinary Research, Pretoria, South Africa; Centre for Agricultural Research³, Eötvös Loránd Research Network, Martonvásár; Food and Wine Research Institute⁴, Eszterházy Károly Catholic University, Eger, Hungary

11.45-12.00

FMO-2

◆BERNARD GITURA KIMANI¹, PATRICK OTETE ANJECHÉ¹, ERIKA BEÁTA KERÉKES¹, CSILLA SZEBENYI², JUDIT KRISCH³, TAMÁS PAPP², CSABA VÁGVÖLGYI¹, MIKLÓS TAKÓ¹

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

Department of Microbiology¹; MTA-SZTE "Lendület" Fungal Pathogenicity Mechanisms Research Group², Faculty of Science and Informatics; Institute of Food Engineering³, Faculty of Engineering, University of Szeged, Szeged, Hungary

Poster Presentations

12.00-12.05

FMP-1

◆BLAŽ JUG¹, ANJA KLANČNIK¹, POLONA JAMNIK¹, MARJORIE FOURNIER²

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

Chair of Biotechnology¹, Microbiology and Food Safety, Department of Food Science, Biotechnical Faculty, University of Ljubljana, Ljubljana, Slovenia; Advanced Proteomics Facility², 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 KOVÁCS¹, BETTINA VOLFFORD¹, DÓRA ANNA PAPP¹, MÓNIKA VARGA¹, BERNADETT LANGÓ², ANDREA PALÁGYI², CSABA VÁGVÖLGYI¹, JUDIT KRISCH³, MIKLÓS TAKÓ¹

ENZYME-ASSISTED EXTRACTION OF PHENOLICS FROM *SORGHUM* SAMPLES

Department of Microbiology¹, Faculty of Science and Informatics, University of Szeged; Cereal Research Non-profit Ltd.²; Institute of Food Engineering³, 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 TAKÓ¹, FATMA TUNALI², VALENTIN NAGY¹, CAROLINA ZAMBRANO¹, MÓNIKA VARGA¹, ANDRÁS SZEKERES¹, JUDIT KRISCH³, TAMÁS PAPP^{1,4}, CSABA VÁGVÖLGYI¹, OSMAN TUGAY⁵, ERIKA BEÁTA KEREKES¹

PRODUCTION OF BIOACTIVE PHENOLICS FROM HAWTHORN FRUIT MATERIAL SAMPLED IN TURKEY

Department of Microbiology¹, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary; Department of Biotechnology², Konya Food and Agriculture University, Meram, Konya, Turkey; Institute of Food Engineering³, Faculty of Engineering; MTA-SZTE "Lendület" Fungal Pathogenicity Mechanisms Research Group⁴, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary; Department of Pharmaceutical Botany⁵, 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 VERES¹, EPERKE GUDMON², OTTÓ BENCSIK¹, ANDRÁS SZEKERES¹, CSABA VÁGVÖLGYI¹, JUDIT KRISCH²

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

Department of Microbiology¹, Faculty of Science and Informatics; Institute of Food Engineering², Faculty of Engineering, University of Szeged, Szeged, Hungary

12.45-14.00 Lunch break

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