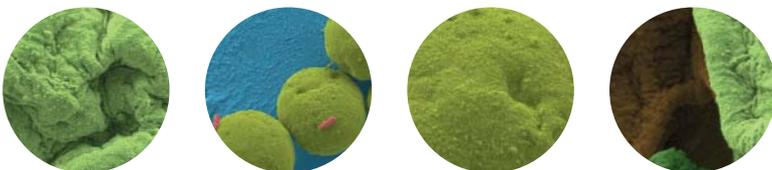


18th International Congress
of the
Hungarian Society for Microbiology



P R O G R A M M E

EÖTVÖS CONFERENCE IN SCIENCE



EÖTVÖS LORÁND UNIVERSITY
BUDAPEST, HUNGARY
JULY 3–5, 2019

PROGRAMME
of the

**18th International Congress
of the
Hungarian Society for Microbiology**

Organized
by the

Hungarian Society for Microbiology,
the
Faculty of Science, Eötvös Loránd University,
and the
Foundation of the Hungarian Society for Microbiology

Eötvös Conference in Science

Eötvös Loránd University
Budapest, Hungary
July 3-5, 2019

Programme at a glance

Tuesday, July 2	16.00-19.00	Registration
Wednesday, July 3	8.00-17.00	Registration
Conference Hall		
	10.30-11.00	Opening Ceremony
	11.00-12.30	Manninger Memorial Session
	12.30-14.30	Lunch break
Auditorium No. 1		
	14.30-17.30	Edward Lawrie Tatum Plenary Session – Omics and Synthetic Biology Approaches in Microbiology
	18.45-	Facultative Evening Programme – Guided Tour in the Castle Bazaar and Dinner
Thursday, July 4	8.00-13.00	Registration
Auditorium No. 1		
	9.00-11.00	Leó Szilárd Semi-plenary Session
	13.00-14.00	Lunch break
	15.00-18.05	Ágnes Ullmann Memorial (Bacteriology) Session
Auditorium No. 2		
	9.00-11.00	Thomas Francis Jr. Semi-plenary Session
	13.00-14.00	Lunch break
	15.30-17.45	Aladár Aujezsky Virology Session
Poster Corridor		
	11.30-13.00	Bacteriology Poster Session
	11.30-13.00	Virology Poster Session
	11.00-13.00	Agricultural and Food Microbiology Poster Session

	11.30-13.00	Industrial Microbiology Poster Session
	11.30-13.00	Environmental Microbiology Poster Session I.
	13.00-14.00	Lunch break
	14.00-15.30	Environmental Microbiology Poster Session II.
	14.00-15.00	Clinical and Diagnostic Microbiology Poster Session
	14.00-16.00	Mycology Poster Session
	19.00-	Banquet Dinner in Danubius Hotel Gellért
Friday, July 5	8.00-10.00	Registration
	Auditorium No. 1	
	8.30-10.30	André Lwoff Semi-Plenary Session
	10.30-11.00	Coffee break
	11.00-13.00	Otto Fritz Meyerhof Semi-Plenary Session
	13.00-14.00	Lunch break
	14.00-	Closing Ceremony Best Poster Award
	Auditorium No. 2	
	10.00-12.35	Gábor Ubrizsy Mycology Session
	12.35-14.00	Lunch break
	Lunch and Exhibition Corridor	
	14.30	Farewell drink
	Biological and Geological Collection	
	15.00	Visit to the Biological and Geological Collection of the Faculty of Science, Eötvös Loránd University

Detailed Programme

Wednesday, July 3

Conference Hall

10.30 **Opening Ceremony**

Welcome Addresses of

Károly Márialigeti
President of the Hungarian Society for Microbiology

Péter Sziklai
Dean, Faculty of Science, Eötvös Loránd University

11.00-12.30 **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: Márta Csire, János Minárovits, Miklós Rusvai and Orsolya Dobay

Manninger Lectures

11.00-11.30

KATALIN KRISTÓF

STUDIES ON TODAY'S PROBLEMATIC MICROBES - THE ROLE OF A MICROBIOLOGICAL LABORATORY

Institute of Laboratory Medicine, Semmelweis University, Budapest, Hungary

11.30-12.00

ATTILA GÁCSER

BEYOND *CANDIDA ALBICANS*: VIRULENCE AND PATHOGENESIS OF AN EMERGING FUNGAL PATHOGEN, *CANDIDA PARAPSILOSIS*

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

Inaugural Lecture by Honorary Member of the Hungarian Society for Microbiology

12.00-12.30

TRINAD CHAKRABORTY

USING GENOMICS TO STUDY ANTIBIOTIC RESISTANCE

Institute for Medical Microbiology, Justus-Liebig-University, and German Centre of Infection Research, Giessen-Marburg-Langen Site, Giessen, Germany

12.30-14.30 Lunch break

Wednesday, July 3

Auditorium No.1

14.30-17.30 Edward Lawrie Tatum Plenary Session – Omics and Synthetic Biology Approaches in Microbiology

Tatum, Edward Lawrie (1909-1975), American geneticist. He attended college first at the University of Chicago, then transferred to University of Wisconsin–Madison, where he received his BA in 1931 and PhD in 1934. He worked at Stanford University, then moved to Yale University in 1945, returned to Stanford in 1948 and then joined the faculty of Rockefeller Institute in 1957. His area of research was to understand the basis of tryptophan biosynthesis in *Escherichia coli*. Tatum and his student J. Lederberg showed that *E. coli* could share genetic information through recombination. Nobel Laureate for showing that genes control individual steps in metabolism (in 1958 with George Beadle and Joshua Lederberg). They exposed the bread mold *Neurospora crassa* to x-rays, causing mutations. These mutations caused changes in specific enzymes involved in metabolic pathways. They proposed a direct link between genes and enzymatic reactions, known as the "one gene, one enzyme" hypothesis.

Chairpersons: Ulrich Dobrindt, Adrian Tsang and Levente Karaffa

14.30-15.00

TPP-1

ULRICH DOBRINDT

IN SEARCH FOR TREATMENT OPTIONS AGAINST URINARY TRACT INFECTION: CHARACTERIZATION OF *E. COLI* FITNESS TRAITS AND ADAPTATION IN THE URINARY TRACT

Institute of Hygiene, University of Münster, Münster, Germany

15.00-15.30

TPP-2

♦ISTVÁN PRAZSÁK¹, NORBERT MOLDOVÁN¹, ZSOLT CSABAI¹, ATTILA SZÜCS¹, ÁKOS HARANGOZÓ¹, KLÁRA MEGYERI², DÓRA TOMBÁCSZ², ZSOLT BOLDOGKÓI¹

HIDDEN COMPLEXITY OF THE VARICELLA ZOSTER VIRUS TRANSCRIPTOME REVEALED BY LONG-READ SEQUENCING

¹Medical Biology; ²Department of Medical Microbiology, Faculty of Medicine, University of Szeged, Szeged, Hungary

15.30-16.00 Coffee break

16.00-16.30

TPP-3

RONALD P. DE VRIES^{1,2,3}

OUT OF SYNC - FUNGAL PLANT BIOMASS DEGRADING ENZYMES AND THEIR RELATED REGULATORY SYSTEMS DISPLAY DIFFERENT EVOLUTIONARY PATTERNS

¹Fungal Physiology, Westerdijk Fungal Biodiversity Institute; ²Biology, Utrecht University, Utrecht, Netherlands; ³Department of Microbiology, University of Helsinki, Helsinki, Finland

16.30-17.00

TPP-4

ADRIAN TSANG

SECONDARY METABOLITE BIOSYNTHESIS IN *ASPERGILLUS NIGER*: CONSEQUENCES OF OVEREXPRESSION OF TRANSCRIPTION REGULATOR GENES

Centre for Structural and Functional Genomics, Concordia University, Montreal, Canada

17.00-17.30

TPP-5

LEVENTE KARAFFA

MANGANESE(II) IONS IN THE GROWTH MEDIUM: MEANS TO OVERCOME AN ARCH-ENEMY OF THE *ASPERGILLUS NIGER* CITRIC ACID FERMENTATION

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

18.45 Facultative Evening Programme – Guided Tour in the Castle Bazaar and Dinner

Thursday, July 4

Auditorium No.1

9. 00-11.00 Leó Szilárd Semi-plenary Session

Szilárd, Leó (1898-1964), a „Hungarian-German-American” physicist, inventor. He attended the Palatine Joseph Technical University in Budapest. His studies were interrupted by military service during World War I. In 1919 he enrolled for engineering at „Technische Hochschule” Berlin-Charlottenburg, but transferred to physics studies at Friedrich Wilhelm University. He made his PhD in 1922, habilitated in 1927 on Maxwell's demon. Szilárd recognized the connection between thermodynamics and information theory. Between 1925 and 1939 patented more than 30 inventions, among them such groundbreaking ones, like nuclear chain reaction, nuclear reactor, linear accelerator, cyclotron, electron microscope, electromagnetic pump. In 1933, he moved to England, helped to found the Academic Assistance Council to help refugee scholars to find new jobs. In England he discovered a means of isotope separation. In 1938 moved to the US, where he worked on the creation of nuclear chain reaction. In late 1939 wrote the letter for Albert Einstein's signature that resulted in the Manhattan Project that built the atomic bomb.

In 1946, Szilárd secured a research professorship at the University of Chicago, and switched to biology. He invented the chemostat, a device for regulating the growth rate of the microorganisms in a bioreactor, discovered feedback inhibition, and was involved in the first cloning of a human cell. Diagnosed with bladder cancer in 1960, he underwent a ⁶⁰Co treatment that he had designed. He helped found the Salk Institute for Biological Studies, where he became a resident fellow.

Chairpersons: Istvan Molnar and István Pócsi

9.00-9.30

SPP-1

ISTVAN MOLNAR

COMBINATORIAL SYNTHETIC MICROBIOLOGY OF UNNATURAL NATURAL PRODUCT FUNGAL POLYKETIDES

Southwest Center for Natural Products Research, University of Arizona, Tucson, USA

9.30-10.00

SPP-2

♦TAMÁS EMRI¹, VIVIEN KURUCZ¹, ÁGNES JAKAB¹, KÁROLY ANTAL², VIKTOR DOMBRÁDI³, OLAF KNIEMEYER⁴, ISTVÁN PÓCSI¹

COMBINATORIAL STRESS RESPONSES IN FUNGI

¹Department of Microbial Biotechnology and Cell Biology, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary;

²Department of Zoology, Eszterházy Károly University, Eger, Hungary; ³Department of Medical Chemistry, Faculty of Medicine, University of Debrecen, Debrecen, Hungary; ⁴Molecular and Applied Microbiology, Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute, Jena, Germany

10.00-10.30

SPP-3

♦LÁSZLÓ KOZÁK¹, ZOLTÁN SZILÁGYI¹, LÁSZLÓ TÓTH¹, BARBARA VÁGÓ¹, ISTVÁN MOLNÁR², ISTVÁN PÓCSI³

VALIDATION OF THE PASPALITREM GENE CLUSTER OF *CLAVICEPS PASPALI* BY *AGROBACTERIUM TUMEFACIENS* MEDIATED GENE REPLACEMENT APPROACH

¹Biotechnological R&D, Teva Pharmaceutical Industries Ltd., Debrecen, Hungary; ²Southwest Center for Natural Products Research, School of Natural Resources and the Environment, University of Arizona, Tucson, USA; ³Department of Molecular Biotechnology and Microbiology, Institute of Biotechnology, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary

10.30-11.00

SPP-4

♦ENIKŐ HORVÁTH, IDA MIKLÓS

OPTIMAL ENVIRONMENTAL CONDITIONS FOR BETTER ANTIMICROBIAL CAPACITY OF THE PULCHERRIMIN PRODUCING *METSCHNIKOWIA* STRAINS

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

13.00-14.00 Lunch break

15.00-18.05 Ágnes Ullmann Memorial (Bacteriology) Session

Ullmann, Ágnes (1927-2019), biochemist, microbiologist. „In spite of having experienced war, both German and Soviet occupations, repeated bombardments, dictatorships, and a revolution, I managed nonetheless to engage in scientific research, thus realizing a childhood dream. After having obtained my Doctor Rerum Naturalium degree in Budapest, Hungary, I was fortunate to meet Jacques Monod at the Pasteur Institute, and this became a turning point in my scientific career. In his laboratory, I contributed to the definition of the lactose operon promoter, uncovered intracistronic complementation in β -galactosidase, and investigated the role of cAMP in *Escherichia coli*. In my own laboratory, together with many gifted students and collaborators, I studied the role of adenylate cyclase in bacterial virulence. This allowed the engineering of recombinant adenylate cyclase toxin from *Bordetella pertussis* for the development of protective and therapeutic vaccines.”

Chairpersons: Trinad Chakraborty and Levente Emődy

15.00-15.15

BOP-1

◆ANNAMÁRIA SZMOLKA¹, HALELUYA WAMI², JUDIT PÁSZTI³, BÉLA NAGY¹, ULRICH DOBRINDT²

COMPARATIVE ANALYSIS OF MOBILE RESISTOMES OF *ESCHERICHIA COLI* AND *SALMONELLA* INFANTIS FROM BROILERS

¹Enteric Bacteriology and Food-borne Zoonosis Research Team, Institute for Veterinary Medical Research, Centre for Agricultural Research, Hungarian Academy of Sciences, Budapest, Hungary; ²Microbial Genome Plasticity, Institute of Hygiene, University of Münster, Münster, Germany; ³Department of Bacteriology, Mycology and Parasitology, National Public Health Center, Budapest, Hungary

15.15-15.30

BOP-2

◆DOMONKOS SVÁB¹, LINDA FALGENHAUER², GERGELY MARÓTI³, TRINAD CHAKRABORTY², ISTVÁN TÓTH¹

COMPLETE GENOME OF A HISTORICAL *SHIGELLA DYSENTERIAE* SEROTYPE 1 STRAIN, AND COMPARATIVE STUDY OF ITS SHIGA TOXIN HARBORING PROPHAGE REGION

¹Enteric bacteriology, Veterinary Research Institute, Agricultural Research Centre, Hungarian Academy of Sciences, Budapest, Hungary; ²Institute of Medical Microbiology, Justus Liebig University, Giessen, Germany; ³Symbiosis and Functional Genomics Unit, Institute of Biochemistry, Biological Research Centre, Hungarian Academy of Sciences, Szeged, Hungary

15.30-15.45

BOP-3

◆DOMONKOS SVÁB, ISTVÁN TÓTH

PREVALENCE OF P2-LIKE PROPHAGE GENES IN CYTOLETHAL DISTENDING TOXIN (CDT) PRODUCING AND NON-PRODUCING *ESCHERICHIA COLI* STRAINS ISOLATED FROM HEALTHY CATTLE

Enteric bacteriology, Veterinary Research Institute, Agricultural Research Centre, Hungarian Academy of Sciences, Budapest, Hungary

15.45-16.00

BOP-4

KATA HORVÁTI¹, KINGA FODOR², BERNADETT PÁLYI³, JUDIT HENCZKÓ³, GYULA BALKÁ⁴, BEÁTA BIRI-KOVÁCS¹, GERGŐ GYULAI⁵, ÉVA KISS⁵, ZSUZSA SENONER⁶, ELEONÓRA SZABÓ⁶, ◆SZILVIA BŐSZE¹

TAILORING HOST CELL SPECIFIC DELIVERY AND BIOAVAILABILITY OF ANTIMYCOBACTERIAL COMPOUNDS

¹MTA-ELTE Research Group of Peptide Chemistry, Hungarian Academy of Sciences; ²Department of Laboratory Animal Science, University of Veterinary Medicine; ³Hungarian National Biosafety Laboratory, National Public Health Center; ⁴Department of Pathology, University of Veterinary Medicine; ⁵Laboratory of Interfaces and Nanostructures, Faculty of Science, ELTE-Eötvös Loránd University; ⁶Mycobacterium Laboratory, National Korányi Institute of TB and Pulmonology, Budapest, Hungary

16.00-16.15

BOP-5

◆ANDREA HORVÁTH¹, ORSOLYA DOBAY¹, EMESE JUHÁSZ², JÚLIA PONGRÁCZ², MIKLÓS IVÁN², KATALIN KRISTÓF²

COMPARISON OF ANTIBIOTIC RESISTANCE AND VIRULENCE OF BLOODSTREAM MRSA AND MSSA ISOLATES FROM THE SEMMELWEIS UNIVERSITY, BUDAPEST

¹Institute of Medical Microbiology; ²Institute of Laboratory Medicine, Semmelweis University, Budapest, Hungary

16.15-16.45 Coffee break

16.45-17.00

BOP-6

◆JUDIT HENCZKÓ¹, BERNADETT PÁLYI¹, NÓRA MAGYAR¹, ÁKOS TÓTH², ZOLTÁN KIS¹

WHOLE-GENOME SEQUENCING OF *BURKHOLDERIA PSEUDOMALLEI* ISOLATE IN HUNGARY

¹National Biosafety Laboratory; ²Department of Bacteriology, National Public Health Center, Budapest, Hungary

17.00-17.15

BOP-7

◆NÓRA TÜNDE ENYEDI¹, ANDREA BORSODI^{1,2}, PÉTER NÉMETH³, TAMÁS FELFÖLDI¹, ATTILA SZABÓ¹, BERNADETT BERÉNYI³, LÁSZLÓ KÓTAI³, PÉTER DOBOSY², JUDIT MAKK¹

GEOMICROBIOLOGICAL STUDY IN A CARBONATE CAVE OF THE AGGTELEK KARST, HUNGARY

¹Department of Microbiology, Faculty of Science, ELTE-Eötvös Loránd University; ²Danube Research Institute, Centre for Ecological Research, Hungarian Academy of Sciences; ³Institute of Materials and Environmental Chemistry, Research Centre for Natural Sciences, Hungarian Academy of Sciences, Budapest, Hungary

17.15-17.30

BOP-8

◆MELINDA PÁZMÁNDI¹, ZOLTÁN KOVÁCS², ANNA MARÁZ¹

DEGREE OF HYDROLYSIS OF PROTEINS USED AS NITROGEN SOURCES INFLUENCE LACTOSE ASSIMILATION AND GROWTH OF LACTIC ACID BACTERIA

¹Department of Microbiology and Biotechnology; ²Department of Food Process Engineering, Faculty of Food Science, Szent István University, Budapest, Hungary

17.30-17.45

BOP-9

KATALIN RÉKA TARCSAI¹, LEONÁRD JANIK², ZSÓFIA PÓLAI¹, ◆JÓZSEF ONGRÁDI¹

ALLERGY AND THE GUT MICROBIAL FLORA

¹Department of Medical Microbiology; ²Department of Public Health, Semmelweis University, Budapest, Hungary

17.45-18.05

BOP-10

◆BÉLA RALOVICH¹, LEVENTE EMÓDY²

RECALLING OUR EARLY TIME DATA ON THE FAECAL EXCRETION OF ENTERIC BACTERIA AND THE PROTECTIVE ROLE OF GUT

¹Ministry of Welfare (retired), Balatonberény; ²Institute of Medical Microbiology and Immunology, Faculty of Medicine, University of Pécs, Pécs, Hungary

19.00-

Banquet Dinner in Danubius Hotel Gellért

Thursday, July 4

Auditorium No.2

9.00-11.00 Thomas Francis Jr. Semi-plenary Session

Francis, Thomas Jr. (1900-1969), American physician, virologist, and epidemiologist. He graduated from New Castle High School (Pennsylvania) in 1917 and Allegheny College in 1921, and received his medical degree from Yale University in 1925. He joined the Rockefeller Institute, doing research on vaccines against bacterial pneumonia, later he took up influenza research. He became the first American to isolate human flu virus. From 1938 to 1941 he was professor of bacteriology and chair of the department of the New York University College of Medicine. In 1940 showed that there are other strains of influenza, and took part in the development of influenza vaccines. In 1941 he was appointed director of the Commission on Influenza of the Armed Forces Epidemiological Board. He took part in the successful development, field trial, and evaluation of protective influenza vaccines. Later that year he joined the School of Public Health at the University of Michigan, where he established a virus laboratory and a Department of Epidemiology. Jonas Salk came to that university in 1941 for postgraduate work in virology. Francis was his mentor and taught him the methodology of vaccine development. Salk's work ultimately led to his polio vaccine. In 1947 Francis was awarded Michigan distinguished professorship („Henry Sewall University Professor of Epidemiology”). Parallel he joined the Pediatrics Faculty at the University's Medical School. As director of the University of Michigan Poliomyelitis Vaccine Evaluation Center, Francis designed and led a field trial to test the vaccine (1.8 million children involved in the U.S., Canada, and Finland). The results of the study were announced in 1955, that signaled an era of success in combating infectious diseases.

Chairpersons: Hans Helmut Niller and János Minárovits

9.00-9.30

FSP-1

◆HANS H. NILLER¹, KLEMENS ANGSTWURM², DENNIS RUBBENSTROTH³, MARTIN BEER³, BARBARA SCHMIDT¹

ZOONOTIC BORNA DISEASE VIRUS 1 SPILL-OVER INFECTIONS LEADING TO FATAL HUMAN ENCEPHALITIS AND ISOLATION OF THE FIRST HUMAN VIRUS STRAIN

¹Institute of Medical Microbiology and Hygiene; ²Department of Neurology, University of Regensburg, Regensburg; ³Institute of Diagnostic Virology, Friedrich-Loeffler-Institut, Greifswald, Germany

9.30-10.00

FSP-2

◆BERNADETT PÁLYI¹, NÓRA MAGYAR^{1,2}, JUDIT HENCZKÓ^{1,2}, KINGA FODOR³, ERVIN VARGA¹, ZOLTÁN KIS^{1,4}

ROAD FROM INFECTION TO LONG-TERM SHEDDING: EBOLA VIRUS ISOLATION FROM HUMAN BODILY FLUIDS

¹National Biosafety Laboratory, National Public Health Center; ²Károly Rácz School of PhD Studies, Semmelweis University; ³Department of Laboratory Animal and Animal Protection, University of Veterinary Medicine; ⁴Institute of Medical Microbiology, Semmelweis University, Budapest, Hungary

10.00-10.30

FSP-3

◆NÓRA MAGYAR^{1,2}, BERNADETT PÁLYI¹, JUDIT HENCZKÓ^{1,2}, ÁKOS TÓTH³, ZOLTÁN KIS^{1,4}

REVEALING THE DIFFERENT ADAPTATION MECHANISMS AND GENETIC VARIATIONS OF THE CRIMEAN-CONGO HEMORRHAGIC FEVER VIRUS USING NEXT GENERATION SEQUENCING

¹National Biosafety Laboratory, National Public Health Center; ²Károly Rácz School of PhD Studies, Semmelweis University; ³Department of Bacteriology, Mycology and Parasitology, National Public Health Center; ⁴Institute of Medical Microbiology, Semmelweis University, Budapest, Hungary

10.30-11.00

FSP-4

◆NORBERT MOLDOVÁN¹, ZSOLT CSABAI¹, ZSOLT BALÁZS¹, DÓRA TOMBÁ CZ¹, MICHAEL SNYDER², ZSOLT BOLDOGKŐI¹

SIZE MATTERS: CHARACTERIZATION OF VIRAL AND HOST TRANSCRIPT ISOFORMS DURING ACMNPV INFECTION USING LONG-READ SEQUENCING

¹Department of Medical Biology, Faculty of Medicine, University of Szeged, Szeged, Hungary; ²Department of Genetics, School of Medicine, Stanford University, Stanford, USA

13.00-14.00 Lunch break

15.30-17.45 Aladár Aujeszky Virology Session

Aujeszky, Aladár (1869-1933), a Hungarian veterinary pathologist, professor of bacteriology, microbiologist, noted for his work on Pseudorabies. Aujeszky studied under Endre Hógyes. From 1907 to 1933 he worked in the Department of Bacteriology of the Royal Academy of Veterinary Medicine. He was the author of 528 publications and director of the Institute of Microbiology at the Veterinary School in Budapest.

Pseudorabies, PRV, Aujeszky's disease, infectious bulbar paralysis or „mad itch” is caused by a virus with icosahedral symmetry and belongs to the genus Varicellovirus within the family Herpesviridae. This subfamily has a wide host range and attacks the peripheral nervous system of the host. It was first described in 1813 in a situation where cattle and pigs shared a stable. In 1909 Weiss found that pigs are the reservoir host of the virus, and that even though other species such as cattle, sheep, cats, dogs, goats, horses, raccoons, skunks, mice, and rats may transmit the disease, the virus completes its life cycle only in pigs.

Chairpersons: Balázs Harrach and Hans Helmut Niller

15.30-15.45

VOP-1

◆BALÁZS HARRACH, GYÖZŐ L. KAJÁN, MÁRIA BENKŐ

MAJOR CHANGES IN THE TAXONOMY OF VIRUSES

Institute for Veterinary Medical Research, Centre for Agricultural Research, Hungarian Academy of Sciences, Budapest, Hungary

15.45-16.00

VOP-2

◆ANDRÁS SURJÁN, BALÁZS HARRACH, MÁRTON VIDOVSKY

FIRST DETECTION OF POLYOMAVIRUSES IN EUROPEAN BATS

Molecular and Comparative Virology Group, Veterinary Research Institute, Agricultural Research Centre, Hungarian Academy of Sciences, Budapest, Hungary

16.00-16.15

VOP-3

◆ESZTER CSOMA¹, MELINDA KATONA¹, KRISZTINA JELES¹, TAMÁS GÁLL², ANITA SZALMÁS¹, LAJOS GERGELY¹

PREVALENCE OF HUMAN POLYOMAVIRUS 11: IS IT TRANSMITTED VIA RESPIRATORY ROUTE?

¹Department of Medical Microbiology; ²Department of Pediatrics, Faculty of Medicine, University of Debrecen, Debrecen, Hungary

16.15-16.30

VOP-4

◆ERIKA BUJÁKI, ÁGNES FARKAS, MÁRIA TAKÁCS

GENERATION OF WHOLE-CAPSID NUCLEOTIDE SEQUENCES WITH NEXT GENERATION SEQUENCING FOR MOLECULAR CHARACTERISATION OF ECHOVIRUS 9 STRAINS DETECTED IN HUNGARY IN 2018

Department of Virology, National Public Health Center, Budapest, Hungary

16.30-17.00 Coffee break

17.00-17.15

VOP-5

PRISCILLA SILVA¹, KAZUNORI YOSHIMURA², ◆KÁROLY NAGY¹

POSSIBLE ANTIVIRAL EFFECT OF FLAVONOIDS AMONG THEM AMAZONIAN PLANT EXTRACTS ON HIV-1 INFECTED CELLS

¹Institute of Medical Microbiology, Semmelweis University, Budapest, Hungary; ²Faculty of Health Science, Nihon Institute of Medical Science, Saitama, Japan

17.15-17.30

VOP-6

◆GYÖZŐ L. KAJÁN¹, ILARIA AFFRANIO¹, ANDREA TÓTHNÉ BISTYÁK², SÁNDOR KECSKEMÉTI², MÁRIA BENKŐ¹

TYPING OF HUNGARIAN FOWL ADENOVIRUS STRAINS REVEALS A POSSIBLE NEW GENOTYPE

¹Molecular and Comparative Virology Research Team, Institute for Veterinary Medical Research Center for Agricultural Research, Hungarian Academy of Sciences, Budapest; ²Veterinary Diagnostic Directorate, National Food Chain Safety Office, Debrecen, Hungary

17.30-17.45

VOP-7

◆KATALIN RÉKA TARCSAI¹, ZSÓFIA PÓLAI¹, BÉLA LAKATOS², DHARAM V. ABLASHI³, LOUISE CHATLYNNE³, KÁROLY NAGY¹, JÓZSEF ONGRÁDI¹

THE FELINE ADENOVIRUS ISOLATE

¹Department of Medical Microbiology, Semmelweis University; ²Surgery, Lak-Vet Bt., Budapest, Hungary; ³Laboratory, Advanced Biotechnologies Inc., Columbia MD, USA

19.00-

Banquet Dinner in Danubius Hotel Gellért

Thursday, July 4

Poster Corridor

11.30-13.00 Bacteriology Poster Session

BPP-1

MÁRIÓ GAJDÁCS¹, MARIANNA ÁBRÓK², ANDREA LÁZÁR², ♦KATALIN BURIÁN³

EPIDEMIOLOGY AND ANTIBIOTIC SUSCEPTIBILITY PATTERNS OF THE MORGANELLACEAE FAMILY IN URINARY TRACT INFECTIONS IN INPATIENTS AND OUTPATIENTS BETWEEN 2008 - 2017: A RETROSPECTIVE AND COMPARATIVE STUDY

¹Department of Pharmacodynamics and Biopharmacy, Faculty of Pharmacy; ²Institute of Clinical Microbiology; ³Department of Medical Microbiology and Immunobiology, Faculty of Medicine, University of Szeged, Szeged, Hungary

BPP-2

♦MÁRIÓ GAJDÁCS^{1,2}, MARIANNA ÁBRÓK², ANDREA LÁZÁR², EDIT URBÁN²

EPIDEMIOLOGY AND RESISTANCE TRENDS OF *STENOTROPHOMONAS MALTOPHILIA* ISOLATED FROM LOWER RESPIRATORY TRACT SPECIMENS: A RETROSPECTIVE SINGLE CENTER SURVEY (2008 - 2017)

¹Department of Pharmacodynamics and Biopharmacy, Faculty of Pharmacy; ²Institute of Clinical Microbiology, Faculty of Medicine, University of Szeged, Szeged, Hungary

BPP-3

♦MÁRIÓ GAJDÁCS^{1,2}, JÓZSEF MAGYARI³, ANNAMÁRIA KINCSES⁴, MÁRTA NOVÉ⁴, TÍMEA MOSOLYGÓ⁴, BERTA BARTA HOLLÓ³, KATALIN MÉSZÁROS SZÉCSÉNYI³, GABRIELLA SPENGLER⁴

METAL-BASED ANTIMICROBIAL STRATEGIES: AN *IN VITRO* STUDY ON THE EFFICACY OF HYDRAZONE-BASED TRANSITION METAL COMPLEXES

¹Department of Pharmacodynamics and Biopharmacy, Faculty of Pharmacy; ²Institute of Clinical Microbiology, Faculty of Medicine, University of Szeged, Szeged, Hungary; ³Department of Chemistry, Biochemistry and Environmental Protection, Faculty of Sciences, University of Novi Sad, Novi Sad, Serbia; ⁴Department of Medical Microbiology and Immunobiology, Faculty of Medicine, University of Szeged, Szeged, Hungary

BPP-4

♦ÁKOS JUHÁSZ, ANNA HEGYI, ALEXANDRA VERESS, ZOLTÁN MAYER, NGUYEN HONG DUC, KATALIN POSTA

THE EFFECT OF PLANT EXTRACTS AND ZINC OXIDE ON INTESTINAL MICROBIOTA OF PIGLETS

Microbiology and Environmental Toxicology Group, Faculty of Agricultural and Environmental Sciences, Szent István University, Gödöllő, Hungary

BPP-5

♦DÁVID KÓKAI¹, DÓRA PARÓCZAI¹, DEZSŐ VIRÓK¹, VALÉRIA ENDRÉSZ¹, DEZSŐ CSUPOR², KATALIN BURIÁN¹

GROWTH MODULATING EFFECT OF *HEDERA HELIX* EXTRACT ON BACTERIA

¹Department of Medical Microbiology and Immunobiology, Faculty of Medicine; ²Department of Pharmacognosy, Faculty of Pharmacy, University of Szeged, Szeged, Hungary

BPP-6

♦JUDIT SAHIN-TÓTH, ESZTER KOVÁCS, ORSOLYA DOBAY

STAPHYLOCOCCUS AUREUS CARRIAGE IN COMPANION ANIMALS AND THEIR OWNERS

Institute of Medical Microbiology, Semmelweis University, Budapest, Hungary

BPP-7

ULRIKE STEINER, ANKITABEN DONGA, ♦PETER SCHUMANN

MALDI-TOF MS IDENTIFICATION DATABASE COVERING THE COLLECTION HOLDINGS OF DSMZ

Service Microorganisms, Leibniz Institute DSMZ - German Collection of Microorganisms and Cell Cultures, Braunschweig, Germany

BPP-8

◆GABRIELLA SPENGLER¹, MOUWAKEH AHMAD², ANNAMÁRIA KINCSES¹, MÁRTA NOVÉ¹, TÍMEA MOSOLYGÓ¹, CSILLA MOHÁCSI-FARKAS², GABRIELLA KISKÓ²

NIGELLA SATIVA* ESSENTIAL OIL AS POTENTIAL SOURCE OF ANTIMICROBIAL AGENTS AGAINST *STAPHYLOCOCCUS AUREUS

¹Department of Medical Microbiology and Immunobiology, Faculty of Medicine, University of Szeged, Szeged; ²Department of Microbiology and Biotechnology, Faculty of Food Science, Szent István University, Budapest, Hungary

BPP-9

◆JUDIT ESZTER SZABÓ^{1,2}, GÁBOR T. KOVÁCS^{1,2}, BERNADETT MIHÁLY^{1,2}, VIOLA ANGYAL^{1,2}, ORSOLYA DOBAY³, DÓRA SZABÓ³, BEÁTA G. VÉRTESSY^{1,2}

INVESTIGATION OF URACIL-DNA REPAIR IN *STAPHYLOCOCCUS AUREUS*

¹Department of Applied Biotechnology and Food Sciences, Budapest University of Technology and Economics; ²Research Center for Natural Sciences, Hungarian Academy of Sciences; ³Institute of Medical Microbiology, Semmelweis University, Budapest, Hungary

11.30-13.00 Virology Poster Session

VPP-1

◆ÉVA ÁY¹, ATTILA HUNYADI^{2,3}, MÁRIA MEZEI¹, JÁNOS MINÁROVITS⁴, JUDIT HOHMANN^{2,3}

FLAVONOL 7-O-GLUCOSIDE HERBACITRIN INHIBITS HIV-1 REPLICATION THROUGH SIMULTANEOUS INTEGRASE AND REVERSE TRANSCRIPTASE INHIBITION

¹National Reference Laboratory of HIV, National Public Health Center, Budapest, Hungary; ²Interdisciplinary Excellence Centre; ³Interdisciplinary Centre of Natural Products, Institute of Pharmacognosy faculty of Pharmacy; ⁴Department of Oral Biology and Experimental Dental Research, Faculty of Dentistry, University of Szeged, Szeged, Hungary

VPP-2

◆EVELIN ERZSÉBET BUKTA¹, CSABA MOLNÁR², JÓZSEF KÓNYA¹, ANITA SZALMÁS¹

EXPRESSION OF CYTOPLASMIC PROTEIN TYROSINE PHOSPHATASES IN CERVICAL CANCER

¹Department of Medical Microbiology; ²Department of Pathology, Faculty of Medicine, University of Debrecen, Debrecen, Hungary

VPP-3

◆ZSOLT BARNABÁS ÉLES, LEILA RAHMANI, JÓZSEF KÓNYA, ANITA SZALMÁS

COMPARISON OF LOW-RISK AND HIGH-RISK HPV E7 ONCOPROTEINS FOR ASSOCIATION WITH PTPN14

Department of Medical Microbiology, Faculty of Medicine, University of Debrecen, Debrecen, Hungary

VPP-4

ESZTER KASZAB, SZILVIA MARTON, KRISZTIÁN BÁNYAI, ◆ENIKŐ FEHÉR

GENOME ANALYSIS OF *ANSER ANSER* POLYOMAVIRUS 1 IN HUNGARY

Institute for Veterinary Medical Research, Centre for Agricultural Research, Hungarian Academy of Sciences, Budapest, Hungary

VPP-5

◆ZALÁN G. HOMONNAY¹, TAMÁS MATÓ¹, KRISZTIÁN BÁNYAI², ISTVÁN KISS¹, VILMOS PALYA¹

GLOBAL DISTRIBUTION AND GENETIC IDENTIFICATION OF FOWL ADENOVIRUSES DETECTED OVER A 15 YEARS PERIOD

¹Scientific Support and Investigation Laboratory, Ceva-Phylaxia Co. Ltd.; ²Institute for Veterinary Medical Research, Hungarian Academy of Sciences, Budapest, Hungary

VPP-6

◆MELINDA KATONA, ANITA SZALMÁS, KRISZTINA JELES, LAJOS GERGELY, ESZTER CSOMA

HUMAN POLYOMAVIRUS 10: DNA PREVALENCE IN RESPIRATORY SAMPLES AND SEROPREVALENCE

Department of Medical Microbiology, Faculty of Medicine, University of Debrecen, Debrecen, Hungary

VPP-7

◆BERNADETT PÁLYI^{1,4}, VERONIKA GÁL², NÓRA MAGYAR¹, JUDIT HENCZKÓ¹, MÁRIA TAKÁCS^{3,4}, ZOLTÁN KIS^{1,4}, ERINHA RESEARCH INFRASTRUCTURE⁴

A NEW POSSIBILITY TO UNLOCK THE INNOVATION POTENTIAL TO RISK GROUP 4 PATHOGENS RESEARCH: ROLE OF THE EUROPEAN RESEARCH INFRASTRUCTURE ON HIGHLY PATHOGENIC AGENTS (ERINHA) AND THE NATIONAL BIOSAFETY LABORATORY

¹National Biosafety Laboratory, ²Department of Project Coordination; ³Department of Virology, National Public Health Center, Budapest, Hungary; ⁴ERINHA, AISBL, Brussel, Belgium

VPP-8

◆LEILA RAHMANI, ZSOLT BARNABÁS ÉLES, JÓZSEF KÓNYA, ANITA SZALMÁS

ANALYSIS OF HIGH-RISK HPV E7 ONCOPROTEIN INTERACTION WITH CYTOPLASMIC PROTEIN TYROSINE PHOSPHATASES

Department of Medical Microbiology, Faculty of Medicine, University of Debrecen, Debrecen, Hungary

VPP-9

◆KATALIN TARCSAI¹, ZSÓFIA PÓLAI¹, KÁROLY NAGY¹, KRISTIN LOOMIS², JOSEPH ONGRÁDI¹

INACTIVATED HHV-6B INDUCES CYTOKINE PRODUCTION DIFFERENT FROM THE EFFECT OF INFECTIOUS VIRUS

¹Department of Medical Microbiology, Semmelweis University, Budapest, Hungary; ²Directorate, HHV-6 Foundation, Santa Barbara, CA, USA

11.00-13.00 Agricultural and Food Microbiology Poster Session

APP-1

◆TONAMO TEMA ANDUALEM, ISTVÁN KOMLÓSI, FERENC PELES

MICROBIOLOGICAL PROPERTIES OF RAW EWE MILK AND UDDER SURFACE SAMPLES IN A HUNGARIAN DAIRY SHEEP FARM

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

APP-2

NGUYEN HONG DUC, ZOLTÁN MAYER, VIKTOR SZENTPÉTERI, ◆KATALIN POSTA

DOES MYCORRHIZATION ALLEVIATE NEGATIVE EFFECTS OF COMBINED DROUGHT AND HEAT STRESS ON TOMATO PLANTS?

Microbiology and Environmental Toxicology Group, Faculty of Agricultural and Environmental Sciences, Szent István University, Gödöllő, Hungary

APP-3

◆MÁTÉ FERENC HÁRI¹, RÓZSA MÁTÉ¹, RITA LAZANYI-KOVÁCS¹, MANUELLA KISS¹, ILDIKÓ PUSPÁN¹, DÁVID KISS-LEIZER¹, ZSOLT BEREZKY², JÓZSEF KUTASI¹, ÉVA KÁRPÁTI²

UTILIZATION OF CARBON AND NITROGEN SOURCES BY NITROGEN FIXING ROOT NODULE SYMBIONTS OF GRAIN LEGUMES

¹BioFil Microbiological, Biotechnological and Biochemical Ltd.; ²Research and Development, Saniplant Ltd., Budapest, Hungary

APP-4

◆ZOLTÁN KARÁCSONY, ADRIENN GEIGER, KÁLMÁN ZOLTÁN VÁCZY

PURIFICATION AND IDENTIFICATION OF EFFECTOR PROTEINS OF THE FUNGAL PATHOGEN *EUTYPA LATA* WHICH INTERNALIZED BY THE CELLS OF THE HOST *VITIS VINIFERA*

Faculty of Agricultural Sciences and Rural Development, Eszterházy Károly University, Eger, Hungary

APP-5

◆DÁVID KISS-LEIZER¹, MANUELLA KISS¹, JÓZSEF KUTASI¹, IMRE BOLDIZSÁR², GERGŐ TÓTH², GÁBOR M. KOVÁCS², NIKOLETTA PÉK³, ZSOLT BEREZKY³, ÉVA KÁRPÁTI³

STUDY ON PLANT GROWTH PROMOTION EFFECTS OF LEGUME SYMBIONTS

¹BioFil Microbiological, Biotechnological and Biochemical Ltd.; ²Department of Plant Anatomy, Institute of Biology, Faculty of Science, ELTE-Eötvös Loránd University; ³Research and Development, Saniplant Ltd., Budapest, Hungary

APP-6

◆RITA LAZANYI-KOVÁCS¹, MANUELLA KISS¹, RÓZSA MÁTÉ¹, ILDIKÓ PUSPÁN¹, CSILLA IMRE¹, DÁVID KISS-LEIZER¹, MÁTÉ HÁRI¹, ZSOLT BEREZKY², ÉVA LASLO³, SZABOLCS LÁNYI³, ISTVÁN MÁTHÉ³, JÓZSEF KUTASI¹

EXAMINATION OF BIOFILM FORMATION ABILITY OF PLANT GROWTH PROMOTING RHIZOBACTERIA FOR USE IN AGRICULTURE

¹BioFil Microbiological, Biotechnological and Biochemical Ltd.; ²Saniplant Biotechnological Research and Development Ltd., Budapest, Hungary; ³Sapientia Hungarian University of Transylvania, Miercurea-Ciuc, Romania

APP-7

◆RÓZSA MÁTÉ¹, MAGDOLNA TÁLLAI², NIKOLETTA PÉK³, ANDREA BALLÁNÉ KOVÁCS², RITA LAZANYI-KOVÁCS¹, ILDIKÓ PUSPÁN¹, ZSOLT BEREZKY³, ÉVA KÁRPÁTI³, JÁNOS KÁTAI², JÓZSEF KUTASI¹

DEVELOPMENT OF MICROBIOLOGICAL SOIL INOCULANT TO IMPROVE SOIL WATER MANAGEMENT AND SOIL STRUCTURE ON HUMUS SANDY AND CALCAREOUS CHERNOZEM SOILS

¹BioFil Microbiological, Biotechnological and Biochemical Ltd., Budapest; ²Institute of Agricultural Chemistry and Soil Science, University of Debrecen, Debrecen; ³Saniplant Ltd., Budapest, Hungary

APP-8

◆PÉTER JÁNOS BEREK-NAGY¹, GERGŐ TÓTH^{2,3}, DÁNIEL G. KNAPP¹, IMRE BOLDIZSÁR^{1,2}, GÁBOR M. KOVÁCS^{1,2}

TETRAMIC ACID ALKALOIDS OF *FLAVOMYCES FULOPHAZII*, A COMMON ROOT ENDOPHYTE OF SEMIARID SANDY GRASSLANDS

¹Department of Plant Anatomy, Institute of Biology, Faculty of Science; ²Institutional Excellence Program, Natural Bioactive Compounds Group, ELTE-Eötvös Loránd University; ³Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Semmelweis University, Budapest, Hungary

APP-9

◆BORBÁLA OLÁHNÉ HORVÁTH¹, ZITA BALOGH², REBEKA TAKÁCS¹, ILDIKÓ MAGYAR¹, ANDREA POMÁZI²

INFLUENCE OF NON-*SACCHAROMYCES* YEAST CULTURES ON THE YEAST AND LACTIC ACID BACTERIA POPULATION DURING PREFERMENTATIVE COLD MACERATION OF RED GRAPES

¹Department of Oenology, Faculty of Horticulture; ²Department of Microbiology and Biotechnology, Faculty of Food Science, Szent István University, Budapest, Hungary

APP-10

◆BORBÁLA OLÁHNÉ HORVÁTH, DIÁNA NYITRAI-SÁRDY, NIKOLETT KELLNER, ILDIKÓ MAGYAR

CHANGE IN METABOLIC FOOTPRINT OF SOME WINE-RELATED YEASTS INDUCED BY EXTREME INITIAL SUGAR CONTENT

Department of Oenology, Faculty of Horticulture, Szent István University, Budapest, Hungary

APP-11

◆NIKOLETTA PÉK¹, ÉVA KÁRPÁTI¹, JÓZSEF KUTASI², RITA LAZANYI-KOVÁCS², ZSOLT BERECSKY¹

PESTICIDE TOLERANCE AND NUTRIENT MOBILISATION OF LEGUME SYMBIONT AND HELPER BACTERIA

¹Saniplant Biotechnological Research and Development Ltd., Gödöllő; ²BioFil Microbiological, Biotechnological and Biochemical Ltd., Budapest, Hungary

APP-12

◆FLÓRA M. PETRÓCZKI¹, GÁBOR KARDOS², BÉLA BÉRI³, FERENC PELES¹

CHARACTERIZATION OF *STAPHYLOCOCCUS AUREUS* STRAINS ISOLATED FROM BULK MILK FROM TWO DAIRY FARMS IN HAJDÚ-BIHAR COUNTY, HUNGARY

¹Institute of Food Science, Faculty of Agricultural and Food Sciences and Environmental Management; ²Department of Medical Microbiology, Faculty of Medicine; ³Institute of Animal Science, Biotechnology and Nature Conservation, Faculty of Agricultural and Food Sciences and Environmental Management, University of Debrecen, Debrecen, Hungary

APP-13

◆ILDIKÓ TÍMEA PUSPÁN¹, RITA LAZANYI-KOVÁCS¹, RÓZSA MÁTÉ¹, JÓZSEF KUTASI¹, ÉVA KÁRPÁTI², GÁBOR SERES³

EXAMINATION OF EXOPOLYSACCHARIDE (EPS) PRODUCTION CAPACITY OF SOIL MICROORGANISM STRAINS AND SEPARATION OF PRODUCED EPS BY SEC-HPLC

¹BioFil Microbiological, Biotechnological and Biochemical Ltd.; ²Saniplant Research and Development Ltd.; ³HPLC Analytics, Berlini Park, Budapest, Hungary

APP-14

◆FANNI TÓTH¹, BALÁZS VAJNA¹, GERGELY SZUKÁCS², ANDRÁS GEÖSEL², KÁROLY MÁRIALIGETI¹

EFFECTS OF ARTIFICIALLY MYCOTOXIN-CONTAMINATED COMPOST ON BROWN BUTTON MUSHROOM GROWTH AND ON COMPOST MICROBIAL COMMUNITY COMPOSITION

¹Department of Microbiology, Faculty of Science, ELTE-Eötvös Loránd University; ²Department of Vegetable and Mushroom Growing, Faculty of Horticulture, Szent István University, Budapest, Hungary

APP-15

◆TAMÁS KOCSIS, GYÖZÖ JORDÁN, PÉTER SZABÓ, KATALIN POSTA

DETERMINE THE SOIL BIOLOGICAL ACTIVITY OF DRÁVA FLOODPLAIN BY FLUORESCIN DIACETATE (FDA)

Microbiology and Environmental Toxicology Group, Faculty of Agricultural and Environmental Sciences, Szent István University, Gödöllő, Hungary

APP-16

◆ZSOLT SPITZMÜLLER¹, ESZTER MOLNÁR¹, NIKOLETTA SZALÓKI¹, ÁRON HORVÁTH², LEVENTE KISS^{2,3}, GÁBOR M. KOVÁCS^{1,2,4}, KÁLMÁN ZOLTÁN VÁCZY¹

GENETIC VARIABILITY OF GRAPE BLACK ROT (*GUIGNARDIA BIDWELLII*) POPULATIONS

¹Food and Wine Research Institute, Eszterházy Károly University, Eger; ²Plant Pathology, Plant Protection Institute, Centre for Agricultural Research, Hungarian Academy of Sciences, Martonvásár, Hungary; ³Centre for Crop Health, University of Southern Queensland, Toowoomba, Australia; ⁴Department of Plant Anatomy, Faculty of Science, ELTE-Eötvös Loránd University, Budapest, Hungary

APP-17

◆LILIÁNA TÓTH¹, GYÖRGYI VÁRADI², ÉVA BOROS³, ISTVÁN NAGY³, FLORENTINE MARX⁴, LÁSZLÓ GALGÓCZY^{1,5}

IN VITRO CYTOTOXIC EFFECT OF *PENICILLIUM CHYSOGENUM* ANTIFUNGAL PROTEIN, ITS DE NOVO RATIONAL DESIGNED PROTEIN VARIANT AND PEPTIDE DERIVATIVE ON MAMMALIAN CELLS AND PLANTS

¹Institute of Plant Biology, Biological Research Centre, Hungarian Academy of Sciences; ²Department of Medical Chemistry, Faculty of Medicine, University of Szeged; ³Institute of Biochemistry, Biological Research Centre, Hungarian Academy of Sciences, Szeged, Hungary; ⁴Division of Molecular Biology, Medical University of Innsbruck, Innsbruck, Austria; ⁵Department of Biotechnology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

11.30-13.00 Industrial Microbiology Poster Session

IPP-1

◆BALÁZS FEJES¹, ÁKOS PÉTER MOLNÁR¹, JEAN-PAUL OUEDRAOGO², ERZSÉBET FEKETE¹, ÁRON SOÓS³, BÉLA KOVÁCS³, ERZSÉBET SÁNDOR³, ADRIAN TSANG², LEVENTE KARAFFA¹

INFLUENCE OF MANGANESE(II) ION UPTAKE ON CITRIC ACID PRODUCTION IN *ASPERGILLUS NIGER*

¹Department of Biochemical Engineering, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary; ²Centre for Structural and Functional Genomics, Concordia University, Montreal, Canada; ³Institute of Food Science, Faculty of Agriculture, University of Debrecen, Debrecen, Hungary

IPP-2

◆ISTVÁN SÁNDOR KOLLÁTH, ERZSÉBET FEKETE, LEVENTE KARAFFA

ITACONIC ACID PRODUCTION BY *ASPERGILLUS TERREUS* FROM D-XYLOSE AND XYLITOL

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

IPP-3

◆ÁKOS PÉTER MOLNÁR¹, ISTVÁN SÁNDOR KOLLÁTH¹, ERZSÉBET FEKETE¹, ERZSÉBET SÁNDOR², ÁRON SOÓS², BÉLA KOVÁCS², CHRISTIAN P. KUBICEK³, LEVENTE KARAFFA¹

CYANIDE-RESISTANT ALTERNATIVE OXIDASE CONTRIBUTES TO ITACONIC ACID OVERFLOW ON D-XYLOSE IN *ASPERGILLUS TERREUS*

¹Department of Biochemical Engineering, Faculty of Science and Technology; ²Institute of Food Science, Faculty of Agricultural and Food Science and Environmental Management, University of Debrecen, Debrecen, Hungary; ³Microbiology and Applied Genomics Group, Research Area Biochemical Technology, Institute of Chemical, Environmental & Bioscience Engineering, TU Wien, Vienna, Austria

IPP-4

◆ZOLTÁN NÉMETH¹, BALÁZS FEJES¹, ÁRON SOÓS², BÉLA KOVÁCS², ERZSÉBET FEKETE¹, LEVENTE KARAFFA¹

MANGANESE ION LEACHING DURING *ASPERGILLUS NIGER* CITRIC ACID FERMENTATION

¹Department of Biochemical Engineering, Faculty of Science and Technology; ²Institute of Food Science, Faculty of Agriculture, University of Debrecen, Debrecen, Hungary

IPP-5

PHAM M. TUAN

STUDY ON RESPONSE SURFACE METHODOLOGY (RSM) OF ALCOHOL FERMENTATION FROM APPLE JUICE BY *SACCHAROMYCES CEREVISIAE*

Research Centre for Bioengineering and Process Engineering, Faculty of Food Science, Szent István University, Budapest, Hungary

IPP-6

◆BAO NGUYEN TOAN, ERIKA BUJNA, MAI TRAN ANH, QUANG DUC NGUYEN

EFFECT OF FERMENTATION OF MANGO JUICE BY SOME LACTIC ACID BACTERIA ON THE ANTIOXIDANT ACTIVITY AND PHENOLIC COMPOUNDS

Research Centre for Bioengineering and Process Engineering, Faculty of Food Science, Szent István University, Budapest, Hungary

11.30-13.00 Environmental Microbiology Poster Session I.

EPP-1

◆FLÓRA SZENTGYÖRGYI^{1,2}, ANDRÁS TÁNCICS², BALÁZS KRISZT¹, TIBOR BENEDEK²

ISOLATION OF NAPHTHLENE-DEGRADING AND BIOFILM PRODUCING BACTERIA

¹Department of Environmental Safety and Ecotoxicology; ²Regional University Centre of Excellence, Faculty of Agricultural and Environmental Sciences, Szent István University, Gödöllő, Hungary

EPP-2

◆ZSUZSA KÉKI¹, JEYRAN BAYRAMOVA¹, JEAN CARLO ANDRADE¹, CSABA ROMSICS¹, DÁNIEL KRAKKÓ², VIKTÓRIA LICUL-KUCERA², KÁROLY MÁRIALIGETI¹

MICROBIAL DEGRADATION OF NAPHTHALENE BY BACTERIAL STRAINS ISOLATED FROM SOIL AND GROUNDWATER SAMPLES CONTAMINATED BY POLYCYCLIC AROMATIC HYDROCARBONS

¹Department of Microbiology, Institute of Biology; ²Laboratory for Environmental Chemistry and Bioanalytics, Institute of Chemistry, ELTE-Eötvös Loránd University, Budapest, Hungary

EPP-3

◆SINCHAN BANERJEE¹, BALÁZS KRISZT², ANDRÁS TÁNCICS¹

EXPLORING THE DIVERSITY OF XYLENE-DEGRADING BACTERIA IN GROUNDWATER OF THE SIKLÓS BTEX-CONTAMINATED SITE

¹Regional University Centre of Excellence in Environmental Industry; ²Department of Environmental Protection and Environmental Safety, Faculty of Agricultural and Environmental Sciences, Szent István University, Gödöllő, Hungary

EPP-4

◆NORBERT KOVÁCS¹, VIKTÓRIA BÓDAI¹, CSABA ROMSICS², ZSUZSANNA NAGYMÁTÉ², ZSUZSA KÉKI², KÁROLY MÁRIALIGETI², BALÁZS ERDÉLYI¹

SCALE-UP OF CHLORINATED SHORT-CHAIN HYDROCARBON AND POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) DEGRADING MICROBIAL CONSORTIUM

¹Fermentia Ltd.; ²Department of Microbiology, Faculty of Science, ELTE-Eötvös Loránd University, Budapest, Hungary

EPP-5

◆GORKHMAZ ABBASZADE, ATTILA SZABÓ, MARWENE TOUMI, ERIKA TÓTH

WHOLE GENOME SEQUENCE ANALYSIS OF THE HEAVY METAL RESISTANT BACTERIUM *CUPRIAVIDUS CAMPINENSIS* S14E4C

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

EPP-6

◆MÓNKA KOVÁCS, ETELKA HEGEDŰS, SZABOLCS SZOBONYA

LEAD RESISTANCE OF SOIL BORNE BACTERIA AND FUNGI

Department of Microbiology and Biotechnology, Szent István University, Budapest, Hungary

EPP-7

◆MILÁN FARKAS¹, JÚLIA RADÓ¹, EDIT KASZAB¹, JUDIT HÁHN², GERGŐ TÓTH¹, PÉTER HARKAI¹, GÁBOR BORDÓS³, BALÁZS KRISZT¹, SÁNDOR SZOBOSZLAY¹

SEASONAL DYNAMICS OF PELAGIC BACTERIAL COMMUNITY IN LAKE BALATON

¹Department of Environmental Safety and Ecotoxicology; ²Regional University Center of Excellence in Environmental Industry, Faculty of Agricultural and Environmental Sciences, Szent István University, Gödöllő; ³Wessling Hungary Ltd., Budapest, Hungary

EPP-8

◆RÓZSA FARKAS¹, CSENGE SOMODI¹, DOMINIKA BUNI¹, MÁRTA VARGHA², DÁVID STEFÁN², MARWENE TOUMI¹, ERIKA TÓTH¹

PRELIMINARY DATA CONNECTED TO MICROBIOLOGICAL INVESTIGATIONS AT TWO DRINKING WATER SUPPLY SYSTEMS IN HUNGARY

¹Department of Microbiology, Faculty of Science, ELTE-Eötvös Loránd University; ²Department of Water Hygiene, National Public Health Center, Budapest, Hungary

EPP-9

◆RÓZSA ESZTER SEBŐK¹, ZSÓFIA TISCHNER^{1,2}, ZSUZSANNA BUFA-DÖRR², BERNADETT KHAYER², ÁGNES SEBESTYÉN², MÁRTA VARGHA², BALÁZS KRISZT¹, DONÁT MAGYAR²

BACTERIAL CONTAMINATION OF BOTTLED WATER DISPENSERS IN HEALTH INSTITUTIONS

¹Institute of Aquaculture and Environmental Safety, Faculty of Agricultural and Environmental Sciences, Szent István University, Gödöllő; ²Department of Environmental Health, National Public Health Center, Budapest, Hungary

EPP-10

◆ZSÓFIA TISCHNER^{1,2}, RÓZSA SEBŐK¹, CSABA DOBOLYI¹, BALÁZS KRISZT¹, DONÁT MAGYAR²

FUNGAL CONTAMINATION OF BOTTLED WATER DISPENSERS IN HEALTH INSTITUTIONS

¹Institute of Aquaculture and Environmental Safety, Faculty of Agricultural and Environmental Sciences, Szent István University, Gödöllő; ²Environmental Health, National Public Health Center, Budapest, Hungary

13.00-14.00 Lunch break

14.00-15.30 Environmental Microbiology Poster Session II.

EPP-11

◆BERNADETT KHAYER, ESZTER RÓKA, ESZTER SCHULER, MÁRTA VARGHA

EFFECT OF TRACE ELEMENTS IN IRRIGATION WATER ON SOIL MICROBIAL COMMUNITY CHANGE

Department of Environmental Health, National Public Health Center, Budapest, Hungary

EPP-12

◆MARWENE TOUMI¹, GORKHMAZ ABBASZADE¹, RÓZSA FARKAS¹, BERNADETT KHAYER², ERIKA TÓTH¹

MICROBIAL COMMUNITY CHARACTERIZATION OF LOW NUTRIENT CONTENT AQUATIC HABITATS - A CULTIVATION BASED APPROACH

¹Department of Microbiology, Faculty of Science, ELTE-Eötvös Loránd University; ²Department of Water Hygiene, National Public Health Center, Budapest, Hungary

EPP-13

NÓRA TÜNDE ENYEDI¹, RÉKA HALMY¹, ANDREA BORSODI¹, PÉTER NÉMETH², GYÖRGY CZUPPON³, BERNADETT BERÉNYI², IVETT KOVÁCS³, SZABOLCS LEÉL-ŐSSY⁴, ◆JUDIT MAKK¹

CALCIUM-CARBONATE PRECIPITATING BACTERIA FROM CSODABOGYÓS CAVE

¹Department of Microbiology, Faculty of Science, ELTE-Eötvös Loránd University; ²Institute of Materials and Environmental Chemistry, Research Centre for Natural Sciences, Hungarian Academy of Sciences; ³Institute for Geological and Geochemical Research, Research Centre for Astronomy and Earth Sciences, Hungarian Academy of Sciences; ⁴Department of Physical and Applied Geology, Faculty of Science, ELTE-Eötvös Loránd University, Budapest, Hungary

EPP-14

◆HOANG DUY TRUONG¹, EDINA NAGY¹, DAM S. MAI², ERIKA BUJNA¹, QUANG D. NGUYEN¹

FORMATION OF NOVEL BIO-ANODE BY IMMOBILIZATION OF *SHEWANELLA XIAMENENSIS* IN POLYMERS – BACTERIA CELLULOSE COMPOSITES

¹Research Centre for Bioengineering and Process Engineering, Faculty of Food Science, Szent István University, Budapest, Hungary; ²Institute of Food Technology and Biotechnology, Industrial University of Ho Chi Minh City, Ho Chi Minh City, Vietnam

EPP-15

◆MELINDA MEGYES, KÁROLY MÁRIALIGETI, ATTILA SZABÓ, KRISTÓF KORPONAI, ANDREA K. BORSODI

MICROBIAL COMMUNITY COMPOSITIONS IN THE RHIZOSPHERE OF MAIZE IN A LONG-TERM FIELD EXPERIMENT OF DIFFERENT AGRICULTURAL PRACTICES

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

EPP-16

◆KATALIN P.-BERECZKI¹, TIBOR SZILI-KOVÁCS², ATTILA BENKE¹, GÁBOR ILLÉS¹, KÁROLY MÁRIALIGETI³

COMPARISON OF THREE FOREST STANDS BY THEIR SOIL CATABOLIC ACTIVITY PROFILES

¹Forest Research Institute, National Agricultural Research and Innovation Centre, Sársvár; ²Institute for Soil Sciences and Agricultural Chemistry, Centre for Agricultural Research, Hungarian Academy of Sciences, Budapest; ³Department of Microbiology, Faculty of Science, ELTE-Eötvös Loránd University, Budapest, Hungary

EPP-17

◆ADRIENN BALÁZS¹, JÚLIA RADÓ¹, GERGŐ TÓTH¹, EDIT KASZAB¹, PÉTER HARKAI¹, ISTVÁN SZABÓ¹, ANDRÁS TÁNCICS², ANITA RISA¹, BALÁZS KRISZT¹, SÁNDOR SZOBOSZLAY¹

ANDROGEN BIODETOXIFICATION POTENTIAL OF *RHODOCOCCUS* AND *COMAMONAS* SPECIES

¹Department of Environmental Safety and Ecotoxicology; ²Regional University Center of Excellence in Environmental Industry, Faculty of Agricultural and Environmental Sciences, Szent István University, Gödöllő, Hungary

EPP-18

◆JUDIT KOSZTIK¹, SZABINA LUZICS¹, KATALIN INOTAI¹, ÁKOS TÓTH¹, DOROTTYA SÁRKÁNY¹, CSABA DOBOLYI¹, ANDRÁS SZEKERES², OTTÓ BENCSIK², ILDIKÓ BATA-VIDÁCS¹, JÓZSEF KUKOLYA¹

EFFECT OF LACTIC ACID BACTERIUM AND YEAST STRAINS ON AFLATOXIN B1 PRODUCTION OF *ASPERGILLUS FLAVUS*

¹Department of Environmental and Applied Microbiology, Agro-Environmental Research Institute, NARIC, Budapest; ²Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

EPP-19

◆DOROTTYA SÁRKÁNY¹, ZSOLT CSENKI-BAKOS², EDINA GARAI², ANDRÁS ÁCS², ANITA RISA³, KATALIN INOTAI¹, ILDIKÓ BATA-VIDÁCS¹, JÓZSEF KUKOLYA¹

COMPARISON OF BIOLOGICAL EFFECTS OF STERIGMATOCYSTIN AND AFLATOXIN ON BIOMONITORING SYSTEMS

¹Department of Environmental and Applied Microbiology, Agro-Environmental Research Institute, NARIC, Budapest; ²Department of Aquaculture; ³Department of Environmental Safety and Ecotoxicology, Faculty of Agricultural and Environmental Sciences, Szent István University, Gödöllő, Hungary

EPP-20

◆ANNA LÁZÁR¹, DÁNIEL G. KNAPP^{1,2}, KÁLMÁN ZOLTÁN VÁCZY², ZOLTÁN KARÁCSONY², GÁBOR M. KOVÁCS^{1,2}

ANALYSIS OF MICROBIOME OF *VITIS VINIFERA* CV *FURMINT* FROM DIFFERENT VINEYARDS IN HUNGARIAN WINE REGIONS - DETECTION OF ENDOPHYTIC FUNGI

¹Department of Plant Anatomy, Institute of Biology, Faculty of Science, ELTE-Eötvös Loránd University, Budapest; ²Food and Wine Research Institute, Eszterházy Károly University, Eger, Hungary

14.00-15.00 Clinical and Diagnostic Microbiology Poster Session

CPP-1

◆JEANETT HOLZKNECHT¹, CSABA PAPP², ATTILA FARKAS³, LÁSZLÓ GALGÓCZY^{2,4}, FLORENTINE MARX¹

PAFC: THE THIRD SMALL, CYSTEINE-RICH, CATIONIC ANTIFUNGAL PROTEIN FROM *PENICILLIUM CHRYSOGENUM* EFFECTIVELY INHIBITS THE GROWTH OF *CANDIDA ALBICANS*

¹Division of Molecular Biology, Medical University of Innsbruck, Innsbruck, Austria; ²Department of Microbiology, Faculty of Science and Informatics, University of Szeged; ³Institute of Plant Biology, Biological Research Centre, Academy of Sciences; ⁴Department of Biotechnology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

CPP-2

◆PÉTER KOSKA¹, PÉTER SÁTORHELYI¹, VIKTÓRIA BÓDAI¹, SZABOLCS KOHÁRI¹, GYÖRGY CSIKÓ², BALÁZS ERDÉLYI¹

DEVELOPMENT OF HEAT KILLED *LACTOBACILLUS* CONTAINING IMMUNOBOTICS TO ATTENUATE CHEMOTHERAPY INDUCED SYSTEMIC INFLAMMATORY RESPONSE SYNDROME

¹Development, Fermentia Microbiological Ltd.; ²Department of Pharmacology and Toxicology, University of Veterinary Medicine, Budapest, Hungary

CPP-3

◆LUIGI SEGAGNI LUSIGNANI, ELISABETH PRESTERL, BEATA ZATORSKA, MIRIAM VAN DEN NEST, MAGDA DIAB-ELSCHAHAWI

INFECTION CONTROL AND RISK FACTORS FOR CARBAPENEMASE-PRODUCING ENTEROBACTERIACEAE. A 5 YEAR (2011 - 2016) CASE-CONTROL STUDY AT AN TERTIARY UNIVERSITY HOSPITAL

Infection Control and Hospital Epidemiology, Vienna General Hospital, Medical University of Vienna, Vienna, Austria

CPP-4

◆KINGA TÓTH^{1,2}, IVELINA DAMJANOVA², KATALIN KAMOTSAY³, VIKTÓRIA NÉMETH³, ÁKOS TÓTH², DÓRA SZABÓ¹

POPULATION SNAPSHOT OF THE CTX-M-PRODUCING *ESCHERICHIA COLI* ISOLATED FROM HAEMOCULTURE IN A HUNGARIAN HOSPITAL

¹Institute of Medical Microbiology, Semmelweis University; ²National Reference Laboratory for Antimicrobial Resistance, National Public Health Center; ³Central Microbiology Laboratory, National Institute of Hematology and Infectious Disease, Central Hospital of Southern Pest, Budapest, Hungary

14.00-16.00 Mycology Poster Session

MPP-1

◆CSABA NAGY-KÖTELES¹, ENDRE BARTA², TAMÁS EMRI¹, TIBOR NAGY², ISTVÁN PÓCSI¹

DEVELOPMENT OF A NEW RNA-SEQ ANALYSIS PIPELINE FOR DETECTING ALLELE-SPECIFIC GENE EXPRESSION IN *CANDIDA ALBICANS*

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

MPP-2

◆SÁRA PÁL¹, TIBOR NÉMETH², TONI GABALDON³, CSABA VÁGVÖLGYI², ATTILA GÁCSE⁴

GENERATION AND CHARACTERIZATION OF AN OVEREXPRESSION STRAIN COLLECTION IN *CANDIDA PARAPSILOSIS*, HUNTING FOR VIRULENCE FACTORS

¹Department of Microbiology; ²Interdisciplinary Excellence Centre, Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary; ³Bioinformatics and Genomics, Centre for Genomic Regulation, Barcelona, Spain; ⁴MTA-SZTE Lendület "Mycobiome" Research Group, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

MPP-3

◆ÉVA VERES¹, DÓRA ADAMECZ², MÁTÉ VADOVICS¹, NÓRA IGAZ², MÓNKA KIRICSI², CSABA VÁGVÖLGYI¹, ATTILA GÁCSE^{1,3}

THE EXAMINATION OF THE INTERACTION BETWEEN *CANDIDA ALBICANS* AND ORAL SQUAMOUS CELL CARCINOMA CELL LINES ON THE LEVEL OF EXTRACELLULAR VESICLES

¹Department of Microbiology; ²Department of Biochemistry and Molecular Biology; ³MTA-SZTE "Lendület" „Mycobiome” Research Group, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

MPP-4

◆BARNABÁS CS. GILA¹, ZOLTÁN KENYERES¹, KÁROLY ANTAL², ISTVÁN PÓCSI¹, TAMÁS EMRI¹

COMBINATORIAL STRESS RESPONSES IN FUNGI

¹Department of Molecular Biotechnology and Microbiology, Faculty of Science and Technology, University of Debrecen, Debrecen; ²Department of Zoology, Eszterházy Károly University, Eger, Hungary

MPP-5

◆BEATRIX KOCSIS, PETRA FODOR, ÉVA JULIANNA LEITER, ISTVÁN PÓCSI

STUDY ON A GENE DELETION MUTANT ENCODING A TRANSCRIPTION FACTOR REGULATING A SECONDARY METABOLITE GENE CLUSTER

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

MPP-6

JUDIT ÁMON, NIKOLETTA SZEMERÉDI, ESZTER BOKOR, CSABA VÁGVÖLGYI, ♦ZSUZSANNA HAMARI

OBTAINING OF *hxnSA hxnTA hxnRC7* AND *hxnSA hxnTA hxnYA hxnRC7* MULTI-DELETION MUTANTS IN *ASPERGILLUS NIDULANS*

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

MPP-7

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

VERIFICATION OF BACK-CONVERSION OF 6-HYDROXYNICOTINIC ACID TO NICOTINIC ACID IN THE NICOTINATE CATABOLIC ROUTE

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

MPP-8

♦NORBERT ÁG, NAPSUGÁR KAVALECZ, FRUZSINA PÉNZES, LEVENTE KARAFFA, MICHEL FLIPPHI, ERZSÉBET FEKETE

STWINTRON (SPLICEOSOMAL TWIN INTRON) DIVERSIFICATION: THREE TYPES OF [D] STWINTRON EVOLVED AT THE SAME INTRON POSITION IN *LIPOMYCES* SPECIES

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

MPP-9

NAPSUGÁR KAVALECZ, NORBERT ÁG, LEVENTE KARAFFA, MICHEL FLIPPHI, ♦ERZSÉBET FEKETE

ROLE FOR SPLICEOSOMAL TWIN INTRONS IN TWO MODES OF ALTERNATIVE SPLICING

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

MPP-10

LÍVIA DÁLYAI, ♦ENIKÓ HORVÁTH, HAJNALKA CSOMA, IDA MIKLÓS

EFFECT OF AMINO ACID SUPPLEMENTATION ON PIGMENT PRODUCTION OF *METSCHNIKOWIA* SPECIES

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

MPP-11

♦TÜNDE KARTALI¹, ILDIKÓ NYILASI¹, CSABA VÁGVÖLGYI¹, ROLAND PATAI², F. TAMÁS POLGÁR², LÁSZLÓ KREDICS¹, TAMÁS PAPP^{1,3}

MOLECULAR CHARACTERIZATION OF DSRNA GENOMES OF VIRUSES ISOLATED FROM *UMBELOPSIS* ISOLATES

¹Department of Microbiology, Faculty of Science and Informatics, University of Szeged; ²Institute of Biophysics, Biological Research Centre, Hungarian Academy of Sciences; ³MTA-SZTE Fungal Pathogenicity Mechanisms Research Group, Hungarian Academy of Sciences and Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

MPP-12

♦CSABA DOBOLYI, VIKTÓRIA NAGY, ZSÓFIA TISCHNER, RÓZSA SEBŐK, SÁNDOR SZOBOSZLAY, BALÁZS KRISZT

DIVERSITY OF THERMOPHILIC FUNGAL COMMUNITIES IN MUSHROOM COMPOST PROCESSING

Institute of Aquaculture and Environmental Safety, Faculty of Agricultural and Environmental Sciences, Szent István University, Gödöllő, Hungary

MPP-13

ZSUZSA SZABÓ¹, ♦KLAUDIA PÁKOZDI¹, KATALIN SZABÓ¹, KATALIN MURVAI¹, TÜNDE PUSZTAHELYI², ÁDÁM KECSKEMÉTI³, ATTILA GÁSPÁR³, LÁSZLÓ HORNOK⁴, ATTILA ÁDÁM⁵, ISTVÁN PÓCSI¹, ÉVA LEITER¹

MANGANESE SUPEROXIDE DISMUTASE IS INVOLVED IN OXIDATIVE STRESS DEFENSE, RESPIRATION AND APOPTOSIS PREVENTION IN *FUSARIUM VERTICILLIOIDES*

¹Department of Molecular Biotechnology and Microbiology, faculty of Science and Technology; ²Central Laboratory of Agricultural and Food Products, Faculty of Agriculture; ³Department of Inorganic and Analytical Chemistry, Faculty of Science and Technology, University of Debrecen, Debrecen; ⁴Faculty of Agricultural and Environmental Sciences, Szent István University, Gödöllő; ⁵Plant Protection Institute, Hungarian Academy of Sciences, Budapest, Hungary

MPP-14

◆ZSUZSA SZABÓ¹, KLAUDIA PÁKOZDI¹, KATALIN SZABÓ¹, TÜNDE PUSZTAHELYI², ÁDÁM KECSKEMÉTI³, ATTILA GÁSPÁR³, LÁSZLÓ HORNOK⁴, ATTILA ÁDÁM⁵, ÉVA LEITER¹, ISTVÁN PÓCSI¹

THE BZIP-TYPE TRANSCRIPTION FACTOR, FVATFA AFFECTS SECONDARY METABOLITE PRODUCTION AND INVASIVE GROWTH IN *FUSARIUM VERTICILLIOIDES*

¹Department of Molecular Biotechnology and Microbiology, faculty of Science and Technology; ²Central Laboratory of Agricultural and Food Products, Faculty of Agriculture; ³Department of Inorganic and Analytical Chemistry, Faculty of Science and Technology, University of Debrecen, Debrecen; ⁴Faculty of Agricultural and Environmental Sciences, Szent István University, Gödöllő; ⁵Plant Protection Institute, Hungarian Academy of Sciences, Budapest, Hungary

MPP-15

◆GALIYA K. AKHMETOVA^{1,2}, ALDABERGEN A. KIYAS², VLADIMIR V. ZABOLOTSKICH², DÁNIEL G. KNAPP¹, GÁBOR M. KOVÁCS¹

IDENTIFICATION OF ENDOPHYTIC FUNGI ISOLATED FROM AGRICULTURAL AND NON-AGRICULTURAL PLANTS OF NORTHERN KAZAKHSTAN

¹Department of Plant Anatomy, Institute of Biology, Faculty of Science, ELTE-Eötvös Loránd University, Budapest, Hungary; ²A.I. Barayev "Scientific Production Centre for Grain Farming", Shortandy, Kazakhstan

MPP-16

◆ILDIKÓ IMREFI¹, ENKHTUUL BOLDPUREV¹, SÁNDOR CSÍKOS¹, PÉTER JÁNOS BEREK-NAGY¹, GALIYA AKHMETOVA¹, BURENJARGAL OTGONSUREN², GÁBOR M. KOVÁCS¹, DÁNIEL G. KNAPP¹

FUNGAL ROOT ENDOPHYTES OF THE DOMINANT GRASS *STIPA KRYLOVII* IN MONGOLIAN STEPPE REGION

¹Department of Plant Anatomy, Institute of Biology, Faculty of Science, ELTE-Eötvös Loránd University, Budapest, Hungary; ²Department of Ecology, Mongolian University of Life Sciences, Zaisan, Ulaanbaatar, Mongolia

MPP-17

◆NAPSUGÁR KAVALECZ¹, NORBERT ÁG¹, LEVENTE KARAFFA¹, CLAUDIO SCAZZOCCHIO², MICHEL FLIPPINI¹, ERZSÉBET FEKETE¹

A SPLICEOSOMAL TWIN INTRON (STWINTRON) PARTICIPATES IN BOTH EXON SKIPPING AND EVOLUTIONARY EXON LOSS

¹Department of Biochemical Engineering, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary; ²Department of Microbiology, Imperial College London, London, UK

Friday, July 5

Auditorium No.1

8.30-10.30 André Lwoff Semi-Plenary Session

Lwoff, André Michel (1902-1994), French physician, microbiologist. He graduated in 1921 from Sorbonne in Paris, and started to work in the Institute Pasteur (when 19 years old) supervised by Édouard Chatton. In 1927 he obtained his medical diploma, and in 1932, he finished his PhD and, with the help of a Rockefeller Foundation grant, moved to the Kaiser Wilhelm Institute for Medical Research of Heidelberg to Otto Meyerhof, where he did research on the development of flagellates. Another Rockefeller grant allowed him go to the University of Cambridge in 1937. In 1938, he was appointed departmental head at the Institut Pasteur, where he did groundbreaking research on bacteriophages, microbiota and on the poliovirus. He was awarded numerous prizes from the French Académie des Sciences, the Grand Prix Charles-Leopold Mayer, the Leeuwenhoek Medal of the Royal Netherlands Academy of Arts and Sciences in 1960 and the Keilin Medal of the British Biochemical Society in 1964. He was awarded a Nobel Prize in Medicine in 1965 for the discovery of the mechanism that some viruses (which he named proviruses) use to infect bacteria. Lwoff was elected a Foreign Member of the Royal Society (ForMemRS) in 1958.

Chairpersons: Katalin Burián and Kata Horváti

8.30-9.00

LSP-1

♦VALTER PÉTER PFLIEGLER¹, ALEXANDRA IMRE¹, HANNA V. RÁCZ¹, PÉTER OLÁH^{2,3}, ZSUZSA ANTUNOVICS⁴, NELLI SZILÁGYI¹, ILONA DÓCZI⁵, LÁSZLÓ MAJOROS⁶, RENÁTÓ KOVÁCS^{6,7}, ISTVÁN PÓCSI¹, KSENIIJA LOPANDIC⁸

THE SURPRISING EFFECT OF THE DOMESTICATION-DRIVEN GENOME EVOLUTION OF *S. CEREVISIAE* ON ITS POTENTIAL TO COLONIZE AND INFECT US

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

LSP-2

9.00-9.30

♦ADRIENN GEIGER, ZOLTÁN KARÁCSONY, KÁLMÁN ZOLTÁN VÁCZY

INVESTIGATION OF THE MYCOBIOTA OF GRAPEVINE TRUNKS AFFECTED BY TRUNK DISEASES

Faculty of Agricultural Sciences and Rural Development, Eszterházy Károly University, Eger, Hungary

9.30-10.00

LSP-3

♦ANNA NAGY¹, ESZTER MEZEI², ORSOLYA NAGY^{1,3}, TAMÁS BAKONYI⁴, NIKOLETT CSONKA¹, MAGDOLNA KAPOS¹, ANITA KOROKNAI¹, KATALIN SZOMOR⁵, ZITA RIGÓ⁵, ZSUZSANNA MOLNÁR², ÁGNES DÁNIELISZ², MÁRIA TAKÁCS^{1,3}

EXTRAORDINARY INCREASE IN THE NUMBER OF WEST NILE VIRUS CASES AND FIRST CONFIRMED HUMAN USUTU VIRUS INFECTION IN HUNGARY, 2018

¹National Reference Laboratory for Viral Zoonoses; ²Department of Communicable Diseases Epidemiology and Infection Control, National Public Health Center; ³Institute of Medical Microbiology, Semmelweis University; ⁴Department of Microbiology and Infectious Diseases, University of Veterinary Medicine; ⁵National Reference Laboratory for Viral Exanthematous Diseases, National Public Health Center, Budapest, Hungary

10.00-10.30

LSP-4

◆KATA HORVÁTI¹, BERNADETT PÁLYI², JUDIT HENCZKÓ², GYULA BALKÁ³, ELEONÓRA SZABÓ⁴, VIKTOR FARKAS¹, KINGA FODOR⁵, SZILVIA BÓSZÉ¹

MYCOBACTERIUM TUBERCULOSIS RELATED T-CELL EPITOPE PEPTIDE-BASED VACCINE CANDIDATES

¹MTA-ELTE Research Group of Peptide Chemistry, Hungarian Academy of Sciences; ²National Biosafety Laboratory, National Public Health Center; ³Department of Pathology, University of Veterinary Medicine; ⁴Laboratory of Bacteriology, Korányi National Institute for Tuberculosis and Respiratory Medicine; ⁵Department of Laboratory Animal and Animal Protection, University of Veterinary Medicine, Budapest, Hungary

10.30-11.00 Coffee break

11.00-13.00 Otto Fritz Meyerhof Semi-Plenary Session

Meyerhof, Otto Fritz (1884-1951), German physician and biochemist. He started his study of medicine in Berlin. He continued his studies in Strasbourg and Heidelberg, from which he graduated in 1909, with a work titled "Contributions to the Psychological Theory of Mental Illness". In 1912, Otto Meyerhof moved to the University of Kiel, where he received a professorship in 1918. In 1922, he was awarded the Nobel Prize in Medicine, with Archibald Vivian Hill, for his work on muscle metabolism, including glycolysis. In 1929 he became one of the directors of the Kaiser Wilhelm Institute for Medical Research, a position he held until 1938, when he emigrated to Paris. Then in 1940 moved to the United States, where he was appointed a guest professorship at the University of Pennsylvania in Philadelphia. In recognition of his contributions to the study of glycolysis, the common series of reactions for the pathway in Eukaryotes is known as the Embden–Meyerhof–Parnas Pathway.

Chairpersons: Hermann J. Heipieper and Károly Márialigeti

11.00-11.30

MSP-1

◆HERMANN J. HEIPIEPER, CHRISTIAN EBERLEIN

OUTER MEMBRANE VESICLE FORMATION IN GRAM-NEGATIVE BACTERIA AS MULTIPLE STRESS RESPONSE MECHANISM LEADING TO HYDROPHOBIC CELL SURFACES AND BIOFILM FORMATION

Department Environmental Biotechnology, Helmholtz Centre for Environmental Research - UFZ, Leipzig, Germany

11.30-12.00

MSP-2

◆TIBOR BENEDEK¹, FLÓRA SZENTGYÖRGYI^{1,2}, ISTVÁN SZABÓ², BALÁZS KRISZT², ANDRÁS TÁNCICS¹

IDENTIFICATION OF MONOAROMATIC- AND POLYCYCLIC AROMATIC HYDROCARBON DEGRADING COMMUNITY MEMBERS OF A BACTERIAL BIOFILM DEVELOPED IN A PETROLEUM HYDROCARBON CONTAMINATED GROUNDWATER

¹Regional University Centre of Excellence in Environmental Industry; ²Department of Environmental Safety and Ecotoxicology, Faculty of Agricultural and Environmental Sciences, Szent István University, Gödöllő, Hungary

12.00-12.30

MSP-39

◆ANDRÁS TÁNCICS¹, FRUZSINA RÉVÉSZ¹, ALEXANDER J. PROBST², PERLA ABIGAIL FIGUEROA GONZALEZ², SINCHAN BANERJEE¹, BALÁZS KRISZT³

MICROBIAL COMMUNITY ANALYSIS OF CRUDE OIL/GASOLINE MIXTURE AMENDED AEROBIC AND MICROAEROBIC ENRICHMENT CULTURES BY A MULTI-OMICS APPROACH

¹Regional University Center of Excellence in Environmental Industry, faculty of Agricultural and Environmental Sciences, Szent István University, Gödöllő, Hungary; ²Group for Aquatic Microbial Ecology, Biofilm Centre, Department of Chemistry, University of Duisburg-Essen, Essen, Germany; ³Department of Environmental Safety and Ecotoxicology, Faculty of Agricultural and Environmental Sciences, Szent István University, Gödöllő, Hungary

12.30-13.00

MSP-4

◆ZSUZSANNA NAGYMÁTÉ¹, LAURA JURECSKA¹, CSABA ROMSICS¹, FANNI TÓTH¹, VIKTÓRIA BÓDAI², PÉTER SÁTORHELYI², ÉVA MÉSZÁROS³, BALÁZS ERDÉLYI², KÁROLY MÁRIALIGETI¹

MONITORING THE EFFECT OF A RECENTLY DEVELOPED BIOAUGMENTATION AGENT ON FIELD CONTAMINATED BY SHORT-CHAIN CHLORINATED HYDROCARBONS

¹Department of Microbiology, Faculty of Science, ELTE-Eötvös Loránd University; ²Fermentia Ltd., Budapest, Hungary; ³Institute of Agricultural Sciences, ETH Zürich, Lindau, Switzerland

13.00-14.00 Lunch break

14.00 Closing Ceremony, Best Poster Award

Friday, July 5

Auditorium No.2

10.00-12.35 Gábor Ubrizsy Mycology Session

Ubrizsy, Gábor (1919-1973), Hungarian botanist, plant pathologist, mycologist. He graduated at the „Tisza István” University in Debrecen as natural history-geography teacher, with specializations in biology, geography and chemistry. From 1938 on worked as a volunteer in the Botanical Institute of the University. Following graduation, He started to work as an assistant professor in the Agricultural Academy of Debrecen, in 1943 moved to Kolozsvár, to the State Seed Inspection Institute. Following military service, and captivity in World War II. habilitated in 1949 in mycology at Debrecen University. Parallel became an associate of the Phytosanitary Institute of the capital, Budapest. He transformed the institute to the Plant Protection Institute, and was its first director during 1950-1969, and helped the work till his death as a scientific advisor. He developed the institute to an internationally known, and acknowledged research institute. Participated in the work of the European and Mediterranean Plant Protection Organization, and in 1964 became a private docent at the Horticultural and Viticulture High School in Budapest. Starting his career, he worked as a florist, with extreme interest to mushrooms, but rapidly changed his field of research to plant pathogenic fungi. He became an expert of integrated plant protection measures. Concerning the taxonomy of fungi, together with József Vörös they developed a new systematics of fungi. He was the editor in chief of the journal *Acta Phytopathologica Hungarica*. He was a member of the Hungarian Academy of Sciences, became a member of the board of Centre international des antiparasitaires, the European Weed Research Society, and a member elect of the British Mycological Society. He obtained the highest scientific award of Hungary named „Kossuth-díj”.

Chairpersons: Attila Gácsér and Valter Péter Pfliegler

10.00-10.15

MOP-1

◆KRISZTINA SZABÓ¹, ÁGNES JAKAB¹, SZILÁRD PÓLISKA², KATALIN PETRÉNYI¹, KATALIN KOVÁCS¹, HASAN BOU ISSA LAMA¹, TAMÁS EMRI¹, ISTVÁN PÓCSI¹, VIKTOR DOMBRÁDI¹

SYNERGISTIC ACTION OF PROTEIN PHOSPHATASE Z1 DELETION AND OXIDATIVE STRESS IN THE OPPORTUNISTIC PATHOGEN *CANDIDA ALBICANS*

¹Department of Molecular Biotechnology and Microbiology, Faculty of Science and Technology; ²Genomic Medicine and Bioinformatic Core Facility, Department of Biochemistry and Molecular biology, Faculty of Medicine, University of Debrecen, Debrecen, Hungary

10.15-10.30

MOP-2

◆ALEXANDRA IMRE¹, HANNA V. RÁCZ¹, ZSUZSA ANTUNOVICS², ZOLTÁN RÁDAI³, RENÁTÓ KOVÁCS^{4,5}, KSENJIJA LOPANDIC⁶, ISTVÁN PÓCSI¹, WALTER P. PFLIEGLER¹

APPLICATION OF GENETIC FINGERPRINTING AND A NEW, RAPID MULTIPLEX PCR SHOWS THAT CLINICAL *SACCHAROMYCES* ISOLATES FREQUENTLY ORIGINATE FROM PROBIOTIC SUPPLEMENTS

¹Department of Molecular Biotechnology and Microbiology; ²Department of Genetics and Applied Microbiology; ³Department of Evolutionary Zoology and Human Biology, Faculty of Science and Technology; ⁴Department of Medical Microbiology, Faculty of Medicine; ⁵Faculty of Pharmacy, University of Debrecen, Debrecen, Hungary; ⁶Department of Biotechnology, University of Natural Resources and Life Sciences, Vienna, Austria

10.30-10.45

MOP-3

LILIÁNA TÓTH¹, GYÖRGYI VÁRADI², ZOLTÁN KELE², ATTILA BORICS³, GÁBOR K. TÓTH^{2,4}, FLORENTINE MARX⁵, ◆LÁSZLÓ GALGÓCZY^{1,6}

POTENTIAL ROLE OF THE EVOLUTIONARY CONSERVED Γ-CORE MOTIF IN THE EFFICACY AND STRUCTURAL STABILITY OF *NEOSARTORYA (ASPERGILLUS) FISCHERI* ANTIFUNGAL PROTEINS

¹Institute of Plant Biology, Biological Research Centre, Hungarian Academy of Sciences; ²Department of Medical Chemistry, Faculty of Medicine, University of Szeged; ³Institute of Biochemistry, Biological Research Centre, Hungarian Academy of Sciences; ⁴MTA-SZTE Biomimetic Systems Research Group, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary; ⁵Division of Molecular Biology, Biocenter, Medical University of Innsbruck, Innsbruck, Austria; ⁶Department of Biotechnology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

10.45-11.00

MOP-4

◆GÁBOR NAGY¹, CSILLA SZEBENYI¹, AMANDA VAZ¹, OLIVÉR JÁGER¹, SANDUGASH IBRAGIMOVA¹, YIYOU GU², IBRAHIM ASHRAF², CSABA VÁGVÖLGYI¹, TAMÁS PAPP¹

DEVELOPMENT OF A PLASMID FREE CRISPR/CAS9 SYSTEM FOR THE GENETIC MODIFICATION OF OPPORTUNISTIC PATHOGENIC MUCOROMYCOTINA SPECIES

¹Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary; ²Los Angeles Biomedical Research Institute, Harbor-UCLA Med Center, Torrance, USA

11.00-11.30 Coffee break

Chairpersons: László Galgóczi and István Pócsi

11.30-11.45

MOP-5

◆ANDREA ZABIÁK¹, FERENC TAKÁCS², ERZSÉBET SÁNDOR¹

FUNGAL POPULATION OF ROTTED WALNUTS AND THEIR ANTIFUNGAL SENSITIVITY

¹Institute of Food Science, Faculty of Agricultural and Food Sciences and Environmental Management, University of Debrecen, Debrecen; ²Fruit Research Institute, National Agricultural Research and Innovation Centre, Újfehértó, Hungary

11.45-12.00

MOP-6

12.00-11.15

◆ISTVÁN PÓCSI¹, ZSUZSA SZABÓ¹, ÉVA LEITER¹, LÁSZLÓ HORNOK²

INVOLVEMENT OF ATFA AND MNSOD HOMOLOGUES FROM *FUSARIUM VERTICILLIOIDES* IN OXIDATIVE STRESS RESPONSES, SEXUAL REPRODUCTION, AND SECONDARY METABOLITE PRODUCTION

¹Department of Molecular Biotechnology and Microbiology, Faculty of Science and Technology, University of Debrecen, Debrecen; ²Faculty of Agricultural and Environmental Sciences, Szent István University, Gödöllő, Hungary

12.00-12.15

MOP-7

◆MÁTÉ VADOVICS¹, NÓRA IGAZ², ÉVA VERES¹, RÓBERT ALFÖLDI³, LAJOS NAGY³, LÁSZLÓ PUSKÁS³, CSABA VÁGVÖLGYI¹, MÓNKA KIRICSI², ATTILA GÁCSE^{1,4}

THE IMPACT OF *CANDIDA ALBICANS* AND *CANDIDA PARAPSILOSIS* ON ORAL SQUAMOUS CELL CARCINOMA

¹Department of Microbiology; ²Department of Biochemistry and Molecular Biology, Faculty of Science and Informatics, University of Szeged; ³Animal Research, Avidin Ltd.; ⁴MTA-SZTE "Lendület" „Mycobiome” Research Group, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

12.15-12.35

MOP-8

BÉLA RALOVICH

SUBSTANCE, ENERGY, EVOLUTION - THE LIFE OF OUR EARTH. WHAT IS THE SCIENTIFIC BASE OF THE SUSTAINABLE DEVELOPMENT

Ministry of Welfare (retired), Balatonberény, Hungary

12.35-14.00 Lunch break

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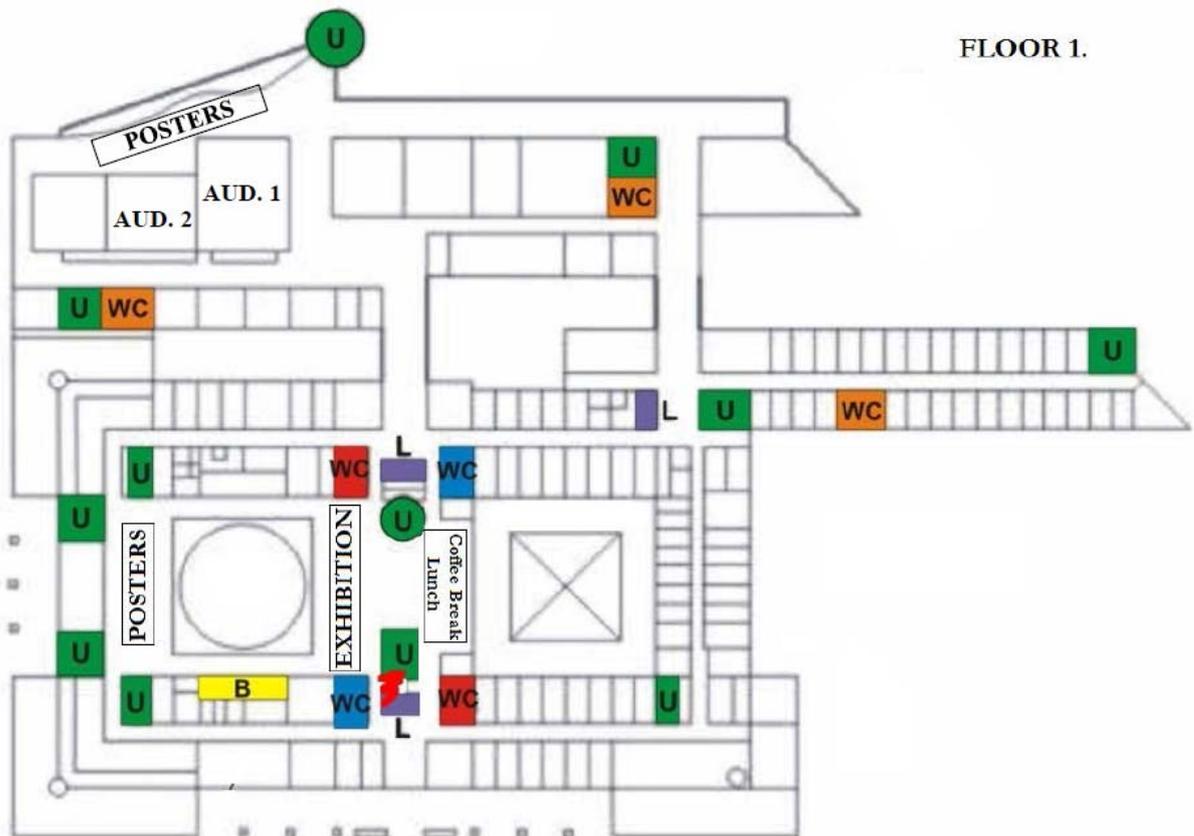
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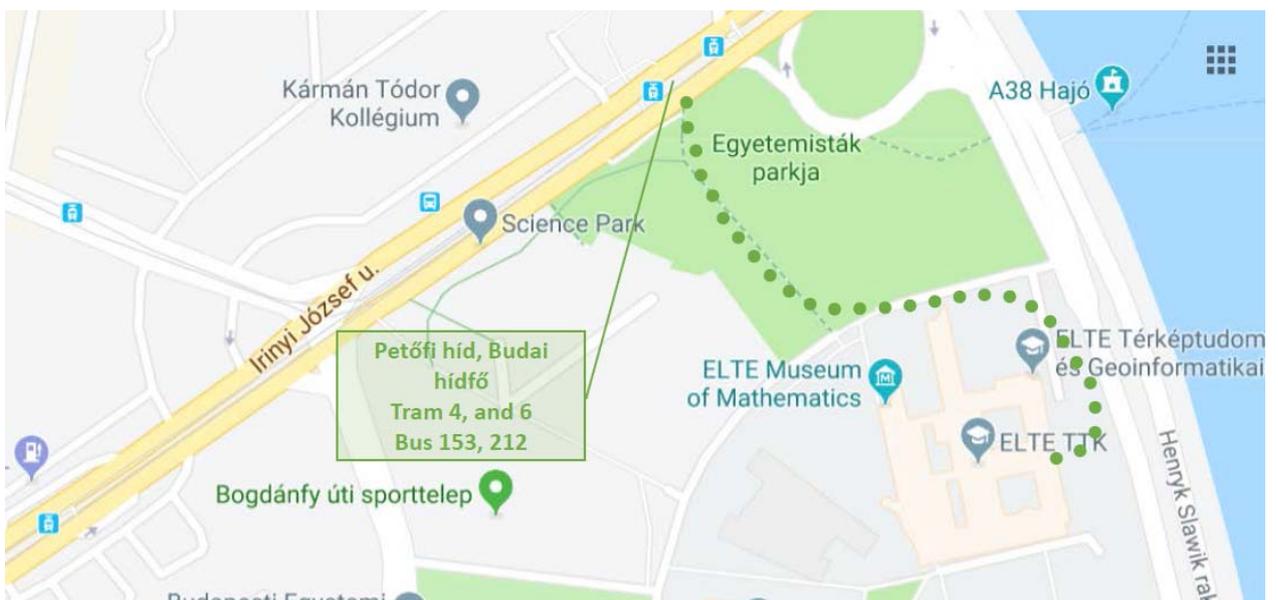
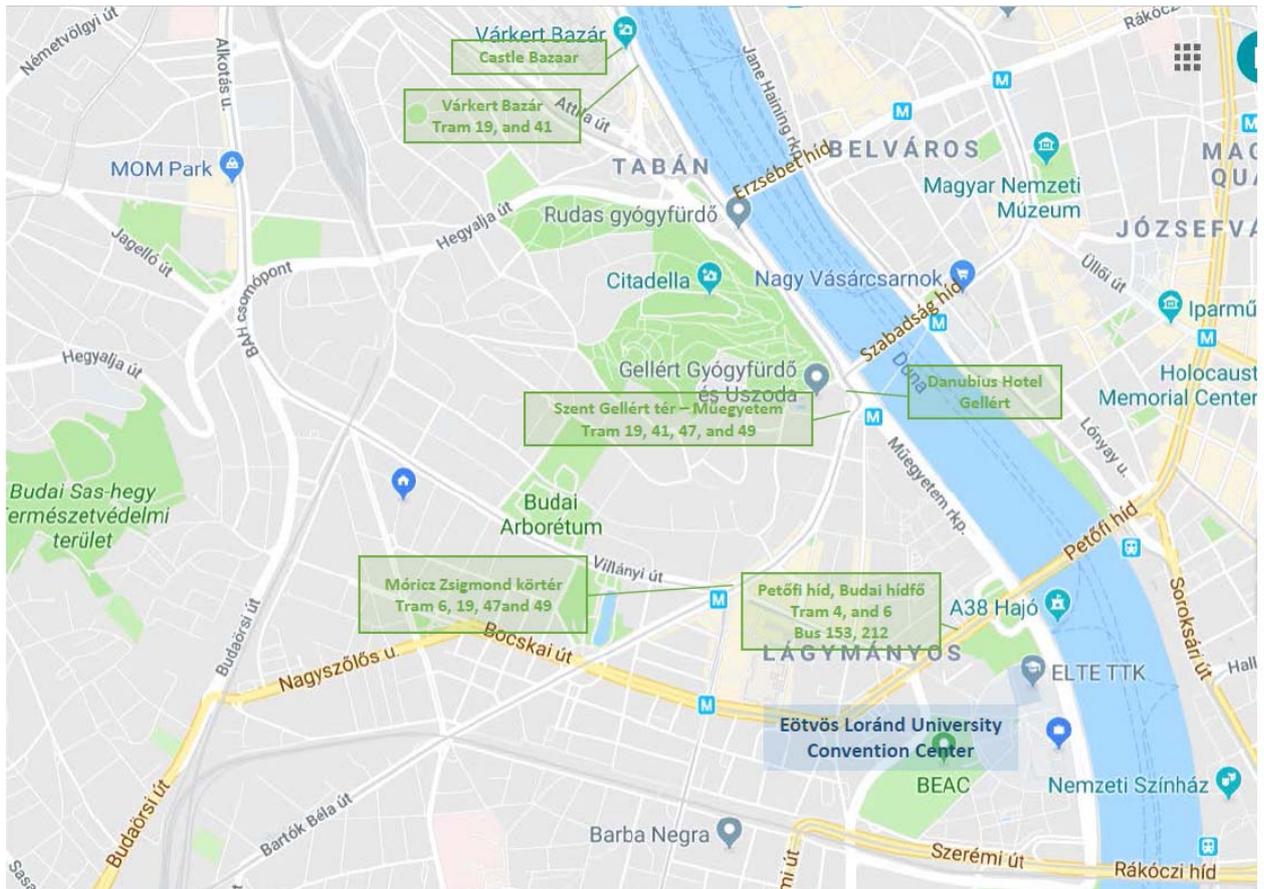
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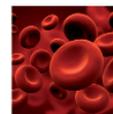
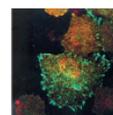
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