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 Aujeszky 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 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 PRAZSÁK[1], NORBERT MOLDOVÁN[1], ZSOLT CSABAI[1], ATTILA SZŰCS[1], ÁKOS HARANGOZÓ[1], KLÁRA MEGYERI[2], DÓRA TOMBÁCZ[2], ZSOLT BOLDOGKŐI[1]

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

[1]Medical Biology; [2]Department 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

[1]Fungal Physiology, Westerdijk Fungal Biodiversity Institute; [2]Biology, Utrecht University, Utrecht, Netherlands; [3]Department 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 ^{60}Co 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 EMRI[1], VIVIEN KURUCZ[1], ÁGNES JAKAB[1], KÁROLY ANTAL[2], VIKTOR DOMBRÁDI[3], OLAF KNIEMEYER[4], ISTVÁN PÓCSI[1]

COMBINATORIAL STRESS RESPONSES IN FUNGI

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

10.00-10.30
SPP-3
♦LÁSZLÓ KOZÁK[1], ZOLTÁN SZILÁGYI[1], LÁSZLÓ TÓTH[1], BARBARA VÁGÓ[1], ISTVÁN MOLNÁR[2], ISTVÁN PÓCSI[3]

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

[1]Biotechnological R&D, Teva Pharmaceutical Industries Ltd., Debrecen, Hungary; [2]Southwest Center for Natural Products Research, School of Natural Resources and the Environment, University of Arizona, Tucson, USA; [3]Department 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 SZMOLKA[1], HALELUYA WAMI[2], JUDIT PÁSZTI[3], BÉLA NAGY[1], ULRICH DOBRINDT[2]

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

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

15.15-15.30
BOP-2

♦DOMONKOS SVÁB[1], LINDA FALGENHAUER[2], GERGELY MARÓTI[3], TRINAD CHAKRABORTY[2], ISTVÁN TÓTH[1]

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

[1]Enteric bacteriology, Veterinary Research Institute, Agricultural Research Centre, Hungarian Academy of Sciences, Budapest, Hungary; [2]Institute of Medical Microbiology, Justus Liebig University, Giessen, Germany; [3]Symbiosis 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 HORVÁTI[1], KINGA FODOR[2], BERNADETT PÁLYI[3], JUDIT HENCZKÓ[3], GYULA BALKA[4], BEÁTA BIRI-KOVÁCS[1], GERGŐ GYULAI[5], ÉVA KISS[5], ZSUZSA SENONER[6], ELEONÓRA SZABÓ[6], ♦SZILVIA BŐSZE[1]

TAILORING HOST CELL SPECIFIC DELIVERY AND BIOAVAILABILITY OF ANTIMYCOBACTERIAL COMPOUNDS

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

16.00-16.15
BOP-5

♦ANDREA HORVÁTH[1], ORSOLYA DOBAY[1], EMESE JUHÁSZ[2], JÚLIA PONGRÁCZ[2], MIKLÓS IVÁN[2], KATALIN KRISTÓF[2]

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

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

16.15-16.45 Coffee break

16.45-17.00
BOP-6

♦JUDIT HENCZKÓ[1], BERNADETT PÁLYI[1], NÓRA MAGYAR[1], ÁKOS TÓTH[2], ZOLTÁN KIS[1]

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

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

17.00-17.15
BOP-7

♦NÓRA TÜNDE ENYEDI[1], ANDREA BORSODI[1, 2], PÉTER NÉMETH[3], TAMÁS FELFÖLDI[1], ATTILA SZABÓ[1], BERNADETT BERÉNYI[3], LÁSZLÓ KÓTAI[3], PÉTER DOBOSY[2], JUDIT MAKK[1]

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

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

17.15-17.30
BOP-8

♦MELINDA PÁZMÁNDI[1], ZOLTÁN KOVÁCS[2], ANNA MARÁZ[1]

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

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

17.30-17.45
BOP-9

KATALIN RÉKA TARCSAI[1], LEONÁRD JANIK[2], ZSÓFIA PÓLAI[1], ♦JÓZSEF ONGRÁDI[1]

ALLERGY AND THE GUT MICROBIAL FLORA

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

17.45-18.05
BOP-10

♦BÉLA RALOVICH[1], LEVENTE EMŐDY[2]

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

[1]Ministry of Welfare (retired), Balatonberény; [2]Institute 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. NILLER[1], KLEMENS ANGSTWURM[2], DENNIS RUBBENSTROTH[3], MARTIN BEER[3], BARBARA SCHMIDT[1]

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

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

9.30-10.00
FSP-2

♦BERNADETT PÁLYI[1], NÓRA MAGYAR[1, 2], JUDIT HENCZKÓ[1, 2], KINGA FODOR[3], ERVIN VARGA[1], ZOLTÁN KIS[1, 4]

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

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

10.00-10.30
FSP-3

♦NÓRA MAGYAR[1, 2], BERNADETT PÁLYI[1], JUDIT HENCZKÓ[1, 2], ÁKOS TÓTH[3], ZOLTÁN KIS[1, 4]

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

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

10.30-11.00
FSP-4

♦NORBERT MOLDOVÁN[1], ZSOLT CSABAI[1], ZSOLT BALÁZS[1], DÓRA TOMBÁCZ[1], MICHAEL SNYDER[2], ZSOLT BOLDOGKŐI[1]

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

[1]Department of Medical Biology, Faculty of Medicine, University of Szeged, Szeged, Hungary; [2]Department 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 Hőgyes. 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, GYŐZŐ 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 VIDOVSZKY

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 CSOMA[1], MELINDA KATONA[1], KRISZTINA JELES[1], TAMÁS GÁLL[2], ANITA SZALMÁS[1], LAJOS GERGELY[1]

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

[1]Department of Medical Microbiology; [2]Department 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 SILVA[1], KAZUNORI YOSHIMURA[2], ♦KÁROLY NAGY[1]

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

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

17.15-17.30
VOP-6

♦GYŐZŐ L. KAJÁN[1], ILARIA AFFRANIO[1], ANDREA TÓTHNÉ BISTYÁK[2], SÁNDOR KECSKEMÉTI[2], MÁRIA BENKŐ[1]

TYPING OF HUNGARIAN FOWL ADENOVIRUS STRAINS REVEALS A POSSIBLE NEW GENOTYPE

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

17.30-17.45
VOP-7

♦KATALIN RÉKA TARCSAI[1], ZSÓFIA PÓLAI[1], BÉLA LAKATOS[2], DHARAM V. ABLASHI[3], LOUISE CHATLYNNE[3], KÁROLY NAGY[1], JÓZSEF ONGRÁDI[1]

THE FELINE ADENOVIRUS ISOLATE

[1]Department of Medical Microbiology, Semmelweis University; [2]Surgery, Lak-Vet Bt., Budapest, Hungary; [3]Laboratory, 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 GAJDÁCS[1], MARIANNA ÁBRÓK[2], ANDREA LÁZÁR[2], ♦KATALIN BURIÁN[3]

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

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

BPP-2

♦MÁRIÓ GAJDÁCS[1, 2], MARIANNA ÁBRÓK[2], ANDREA LÁZÁR[2], EDIT URBÁN[2]

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

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

BPP-3

♦MÁRIÓ GAJDÁCS[1, 2], JÓZSEF MAGYARI[3], ANNAMÁRIA KINCSES[4], MÁRTA NOVÉ[4], TÍMEA MOSOLYGÓ[4], BERTA BARTA HOLLÓ[3], KATALIN MÉSZÁROS SZÉCSÉNYI[3], GABRIELLA SPENGLER[4]

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

[1]Department of Pharmacodynamics and Biopharmacy, Faculty of Pharmacy; [2]Institute of Clinical Microbiology, Faculty of Medicine, University of Szeged, Szeged, Hungary; [3]Department of Chemistry, Biochemistry and Environmental Protection, Faculty of Sciences, University of Novi Sad, Novi Sad, Serbia; [4]Department 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 KÓKAI[1], DÓRA PARÓCZAI[1], DEZSŐ VIRÓK[1], VALÉRIA ENDRÉSZ[1], DEZSŐ CSUPOR[2], KATALIN BURIÁN[1]

GROWTH MODULATING EFFECT OF *HEDERA HELIX* EXTRACT ON BACTERIA

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

BPP-6

♦JUDIT SAHIN-TÓTH, ESZTER KOVÁCS, ORSOLYA DOBAY

***STAPHYLOCOCUS 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 SPENGLER[1], MOUWAKEH AHMAD[2], ANNAMÁRIA KINCSES[1], MÁRTA NOVÉ[1], TÍMEA MOSOLYGÓ[1], CSILLA MOHÁCSI-FARKAS[2], GABRIELLA KISKÓ[2]

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

[1]Department of Medical Microbiology and Immunobiology, Faculty of Medicine, University of Szeged, Szeged; [2]Department 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 DOBAY[3], DÓRA SZABÓ[3], BEÁTA G. VÉRTESSY[1, 2]

INVESTIGATION OF URACIL-DNA REPAIR IN *STAPHYLOCOCCUS AUREUS*

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

11.30-13.00 Virology Poster Session

VPP-1

♦ÉVA ÁY[1], ATTILA HUNYADI[2, 3], MÁRIA MEZEI[1], JÁNOS MINÁROVITS[4], JUDIT HOHMANN[2, 3]

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

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

VPP-2

♦EVELIN ERZSÉBET BUKTA[1], CSABA MOLNÁR[2], JÓZSEF KÓNYA[1], ANITA SZALMÁS[1]

EXPRESSION OF CYTOPLASMIC PROTEIN TYROSINE PHOSPHATASES IN CERVICAL CANCER

[1]Department of Medical Microbiology; [2]Department 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. HOMONNAY[1], TAMÁS MATÓ[1], KRISZTIÁN BÁNYAI[2], ISTVÁN KISS[1], VILMOS PALYA[1]

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

[1]Scientific Support and Investigation Laboratory, Ceva-Phylaxia Co. Ltd.; [2]Institute 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 GÁL[2], NÓRA MAGYAR[1], JUDIT HENCZKÓ[1], MÁRIA TAKÁCS[3, 4], ZOLTÁN KIS[1, 4], ERINHA RESEARCH INFRASTRUCTURE[4]

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

[1]National Biosafety Laboratory, [2]Department of Project Coordination; [3]Department of Virology, National Public Health Center, Budapest, Hungary; [4]ERINHA, 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 TARCSAI[1], ZSÓFIA PÓLAI[1], KÁROLY NAGY[1], KRISTIN LOOMIS[2], JOSEPH ONGRÁDI[1]

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

[1]Department of Medical Microbiology, Semmelweis University, Budapest, Hungary; [2]Directorate, 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 HÁRI[1], RÓZSA MÁTÉ[1], RITA LAZANYI-KOVÁCS[1], MANUELLA KISS[1], ILDIKÓ PUSPÁN[1], DÁVID KISS-LEIZER[1], ZSOLT BERECZKY[2], JÓZSEF KUTASI[1], ÉVA KÁRPÁTI[2]

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

[1]BioFil Microbiological, Biotechnological and Biochemical Ltd.; [2]Research 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-LEIZER[1], MANUELLA KISS[1], JÓZSEF KUTASI[1], IMRE BOLDIZSÁR[2], GERGŐ TÓTH[2], GÁBOR M. KOVÁCS[2], NIKOLETTA PÉK[3], ZSOLT BERECZKY[3], ÉVA KÁRPÁTI[3]

STUDY ON PLANT GROWTH PROMOTION EFFECTS OF LEGUME SYMBIONTS

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

APP-6

♦RITA LAZANYI-KOVÁCS[1], MANUELLA KISS[1], RÓZSA MÁTÉ[1], ILDIKÓ PUSPÁN[1], CSILLA IMRE[1], DÁVID KISS-LEIZER[1], MÁTÉ HÁRI[1], ZSOLT BERECZKY[2], ÉVA LASLO[3], SZABOLCS LÁNYI[3], ISTVÁN MÁTHÉ[3], JÓZSEF KUTASI[1]

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

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

APP-7

♦RÓZSA MÁTÉ[1], MAGDOLNA TÁLLAI[2], NIKOLETTA PÉK[3], ANDREA BALLÁNÉ KOVÁCS[2], RITA LAZANYI-KOVÁCS[1], ILDIKÓ PUSPÁN[1], ZSOLT BERECZKY[3], ÉVA KÁRPÁTI[3], JÁNOS KÁTAI[2], JÓZSEF KUTASI[1]

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

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

APP-8

♦PÉTER JÁNOS BEREK-NAGY[1], GERGŐ TÓTH[2, 3], DÁNIEL G. KNAPP[1], IMRE BOLDIZSÁR[1, 2], GÁBOR M. KOVÁCS[1, 2]

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

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

APP-9

♦BORBÁLA OLÁHNÉ HORVÁTH[1], ZITA BALOGH[2], REBEKA TAKÁCS[1], ILDIKÓ MAGYAR[1], ANDREA POMÁZI[2]

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

[1]Department of Oenology, Faculty of Horticulture; [2]Department 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 PÉK[1], ÉVA KÁRPÁTI[1], JÓZSEF KUTASI[2], RITA LAZANYI-KOVÁCS[2], ZSOLT BERECZKY[1]

PESTICIDE TOLERANCE AND NUTRIENT MOBILISATION OF LEGUME SYMBIONT AND HELPER BACTERIA

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

APP-12

♦FLÓRA M. PETRÓCZKI[1], GÁBOR KARDOS[2], BÉLA BÉRI[3], FERENC PELES[1]

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

[1]Institute of Food Science, Faculty of Agricultural and Food Sciences and Environmental Management; [2]Department of Medical Microbiology, Faculty of Medicine; [3]Institute 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 PUSPÁN[1], RITA LAZANYI-KOVÁCS[1], RÓZSA MÁTÉ[1], JÓZSEF KUTASI[1], ÉVA KÁRPÁTI[2], GÁBOR SERES[3]

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

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

APP-14

♦FANNI TÓTH[1], BALÁZS VAJNA[1], GERGELY SZUKÁCS[2], ANDRÁS GEÖSEL[2], KÁROLY MÁRIALIGETI[1]

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

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

APP-15

♦TAMÁS KOCSIS, GYŐZŐ JORDÁN, PÉTER SZABÓ, KATALIN POSTA

DETERMINATE THE SOIL BIOLOGICAL ACTIVITY OF DRÁVA FLOODPLAIN BY FLUORESCEIN DIACETATE (FDA)

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

APP-16

♦ZSOLT SPITZMÜLLER[1], ESZTER MOLNÁR[1], NIKOLETTA SZALÓKI[1], ÁRON HORVÁTH[2], LEVENTE KISS[2, 3], GÁBOR M. KOVÁCS[1, 2, 4], KÁLMÁN ZOLTÁN VÁCZY[1]

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

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

APP-17

♦LILIÁNA TÓTH[1], GYÖRGYI VÁRADI[2], ÉVA BOROS[3], ISTVÁN NAGY[3], FLORENTINE MARX[4], 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

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

11.30-13.00 Industrial Microbiology Poster Session

IPP-1

♦BALÁZS FEJES[1], ÁKOS PÉTER MOLNÁR[1], JEAN-PAUL OUEDRAOGO[2], ERZSÉBET FEKETE[1], ÁRON SOÓS[3], BÉLA KOVÁCS[3], ERZSÉBET SÁNDOR[3], ADRIAN TSANG[2], LEVENTE KARAFFA[1]

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

[1]Department of Biochemical Engineering, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary; [2]Centre for Structural and Functional Genomics, Concordia University, Montreal, Canada; [3]Institute 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 MOLNÁR[1], ISTVÁN SÁNDOR KOLLÁTH[1], ERZSÉBET FEKETE[1], ERZSÉBET SÁNDOR[2], ÁRON SOÓS[2], BÉLA KOVÁCS[2], CHRISTIAN P. KUBICEK[3], LEVENTE KARAFFA[1]

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

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

IPP-4

♦ZOLTÁN NÉMETH[1], BALÁZS FEJES[1], ÁRON SOÓS[2], BÉLA KOVÁCS[2], ERZSÉBET FEKETE[1], LEVENTE KARAFFA[1]

MANGANESE ION LEACHING DURING *ASPERGILLUS NIGER* CITRIC ACID FERMENTATION

[1]Department of Biochemical Engineering, Faculty of Science and Technology; [2]Institute 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 TÁNCSICS[2], BALÁZS KRISZT[1], TIBOR BENEDEK[2]

ISOLATION OF NAPHTHLENE-DEGRADING AND BIOFILM PRODUCING BACTERIA

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

EPP-2

♦ZSUZSA KÉKI[1], JEYRAN BAYRAMOVA[1], JEAN CARLO ANDRADE[1], CSABA ROMSICS[1], DÁNIEL KRAKKÓ[2],VIKTÓRIA LICUL-KUCERA[2], KÁROLY MÁRIALIGETI[1]

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

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

EPP-3

♦SINCHAN BANERJEE[1], BALÁZS KRISZT[2], ANDRÁS TÁNCSICS[1]

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

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

EPP-4

♦NORBERT KOVÁCS[1], VIKTÓRIA BÓDAI[1], CSABA ROMSICS[2], ZSUZSANNA NAGYMÁTÉ[2], ZSUZSA KÉKI[2], KÁROLY MÁRIALIGETI[2], BALÁZS ERDÉLYI[1]

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

[1]Fermentia Ltd.; [2]Department 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

♦MÓNIKA 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 FARKAS[1], JÚLIA RADÓ[1], EDIT KASZAB[1], JUDIT HÁHN[2], GERGŐ TÓTH[1], PÉTER HARKAI[1], GÁBOR BORDÓS[3], BALÁZS KRISZT[1], SÁNDOR SZOBOSZLAY[1]

SEASONAL DYNAMICS OF PELAGIC BACTERIAL COMMUNITY IN LAKE BALATON

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

EPP-8

♦RÓZSA FARKAS[1], CSENGE SOMODI[1], DOMINIKA BUNI[1], MÁRTA VARGHA[2], DÁVID STEFÁN[2], MARWENE TOUMI[1], ERIKA TÓTH[1]

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

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

EPP-9

♦RÓZSA ESZTER SEBŐK[1], ZSÓFIA TISCHNER[1, 2], ZSUZSANNA BUFA-DŐRR[2], BERNADETT KHAYER[2], ÁGNES SEBESTYÉN[2], MÁRTA VARGHA[2], BALÁZS KRISZT[1], DONÁT MAGYAR[2]

BACTERIAL CONTAMINATION OF BOTTLED WATER DISPENSERS IN HEALTH INSTITUTIONS

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

EPP-10

♦ZSÓFIA TISCHNER[1, 2], RÓZSA SEBŐK[1], CSABA DOBOLYI[1], BALÁZS KRISZT[1], DONÁT MAGYAR[2]

FUNGAL CONTAMINATION OF BOTTLED WATER DISPENSERS IN HEALTH INSTITUTIONS

[1]Institute of Aquaculture and Environmental Safety, Faculty of Agricultural and Environmental Sciences, Szent István University, Gödöllő; [2]Environmental 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 TOUMI[1], GORKHMAZ ABBASZADE[1], RÓZSA FARKAS[1], BERNADETT KHAYER[2], ERIKA TÓTH[1]

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

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

EPP-13

NÓRA TÜNDE ENYEDI[1], RÉKA HALMY[1], ANDREA BORSODI[1], PÉTER NÉMETH[2], GYÖRGY CZUPPON[3], BERNADETT BERÉNYI[2], IVETT KOVÁCS[3], SZABOLCS LEÉL-ŐSSY[4], ♦JUDIT MAKK[1]

CALCIUM-CARBONATE PRECIPITATING BACTERIA FROM CSODABOGYÓS CAVE

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

EPP-14

♦HOANG DUY TRUONG[1], EDINA NAGY[1], DAM S. MAI[2], ERIKA BUJNA[1], QUANG D. NGUYEN[1]

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

[1]Research Centre for Bioengineering and Process Engineering, Faculty of Food Science, Szent István University, Budapest, Hungary; [2]Institute 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.-BERECZKI[1], TIBOR SZILI-KOVÁCS[2], ATTILA BENKE[1], GÁBOR ILLÉS[1], KÁROLY MÁRIALIGETI[3]

COMPARISON OF THREE FOREST STANDS BY THEIR SOIL CATABOLIC ACTIVITY PROFILES

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

EPP-17

♦ADRIENN BALÁZS[1], JÚLIA RADÓ[1], GERGŐ TÓTH[1], EDIT KASZAB[1], PÉTER HARKAI[1], ISTVÁN SZABÓ[1], ANDRÁS TÁNCSICS[2], ANITA RISA[1], BALÁZS KRISZT[1], SÁNDOR SZOBOSZLAY[1]

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

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

EPP-18

♦JUDIT KOSZTIK[1], SZABINA LUZICS[1], KATALIN INOTAI[1], ÁKOS TÓTH[1], DOROTTYA SÁRKÁNY[1], CSABA DOBOLYI[1], ANDRÁS SZEKERES[2], OTTÓ BENCSIK[2], ILDIKÓ BATA-VIDÁCS[1], JÓZSEF KUKOLYA[1]

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

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

EPP-19

♦DOROTTYA SÁRKÁNY[1], ZSOLT CSENKI-BAKOS[2], EDINA GARAI[2], ANDRÁS ÁCS[2], ANITA RISA[3], KATALIN INOTAI[1], ILDIKÓ BATA-VIDÁCS[1], JÓZSEF KUKOLYA[1]

COMPARISON OF BIOLOGICAL EFFECTS OF STERIGMATOCYSTIN AND AFLATOXIN ON BIOMONITORING SYSTEMS

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

EPP-20

♦ANNA LÁZÁR[1], DÁNIEL G. KNAPP[1, 2], KÁLMÁN ZOLTÁN VÁCZY[2], ZOLTÁN KARÁCSONY[2], GÁBOR M. KOVÁCS[1, 2]

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

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

14.00-15.00 Clinical and Diagnostic Microbiology Poster Session

CPP-1

♦JEANETT HOLZKNECHT[1], CSABA PAPP[2], ATTILA FARKAS[3], LÁSZLÓ GALGÓCZY[2, 4], FLORENTINE MARX[1]

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

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

CPP-2

♦PÉTER KOSKA[1], PÉTER SÁTORHELYI[1], VIKTÓRIA BÓDAI[1], SZABOLCS KOHÁRI[1], GYÖRGY CSIKÓ[2], BALÁZS ERDÉLYI[1]

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

[1]Development, Fermentia Microbiological Ltd.; [2]Department 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 DAMJANOVA[2], KATALIN KAMOTSAY[3], VIKTÓRIA NÉMETH[3], ÁKOS TÓTH[2], DÓRA SZABÓ[1]

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

[1]Institute of Medical Microbiology, Semmelweis University; [2]National Reference Laboratory for Antimicrobial Resistance, National Public Health Center; [3]Central 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-KÖTELES[1], ENDRE BARTA[2], TAMÁS EMRI[1], TIBOR NAGY[2], ISTVÁN PÓCSI[1]

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

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

MPP-2

♦SÁRA PÁL[1], TIBOR NÉMETH[2], TONI GABALDON[3], CSABA VÁGVÖLGYI[2], ATTILA GÁCSER[4]

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

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

MPP-3

♦ÉVA VERES[1], DÓRA ADAMECZ[2], MÁTÉ VADOVICS[1], NÓRA IGAZ[2], MÓNIKA KIRICSI[2], CSABA VÁGVÖLGYI[1], ATTILA GÁCSER[1, 3]

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

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

MPP-4

♦BARNABÁS CS. GILA[1], ZOLTÁN KENYERES[1], KÁROLY ANTAL[2], ISTVÁN PÓCSI[1], TAMÁS EMRI[1]

COMBINATORIAL STRESS RESPONSES IN FUNGI

[1]Department of Molecular Biotechnology and Microbiology, Faculty of Science and Technology, University of Debrecen, Debrecen; [2]Department 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 TRANSCRIPTON 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 *hxnSΔ hxnTΔ hxnRC7* AND *hxnSΔ hxnTΔ hxnYΔ 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, ♦ENIKŐ 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 KARTALI[1], ILDIKÓ NYILASI[1], CSABA VÁGVÖLGYI[1], ROLAND PATAI[2], F. TAMÁS POLGÁR[2], LÁSZLÓ KREDICS[1], TAMÁS PAPP[1, 3]

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

[1]Department of Microbiology, Faculty of Science and Informatics, University of Szeged; [2]Institute of Biophysics, Biological Research Centre, Hungarian Academy of Sciences; [3]MTA-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 SZABÓ[1], ♦KLAUDIA PÁKOZDI[1], KATALIN SZABÓ[1], KATALIN MURVAI[1], TÜNDE PUSZTAHELYI[2], ÁDÁM KECSKEMÉTI[3], ATTILA GÁSPÁR[3], LÁSZLÓ HORNOK[4], ATTILA ÁDÁM[5], ISTVÁN PÓCSI[1], ÉVA LEITER[1]

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

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

MPP-14

♦ZSUZSA SZABÓ[1], KLAUDIA PÁKOZDI[1], KATALIN SZABÓ[1], TÜNDE PUSZTAHELYI[2], ÁDÁM KECSKEMÉTI[3], ATTILA GÁSPÁR[3], LÁSZLÓ HORNOK[4], ATTILA ÁDÁM[5], ÉVA LEITER[1], ISTVÁN PÓCSI[1]

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

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

MPP-15

♦GALIYA K. AKHMETOVA[1, 2], ALDABERGEN A. KIYAS[2], VLADIMIR V. ZABOLOTSKICH[2], DÁNIEL G. KNAPP[1], GÁBOR M. KOVÁCS[1]

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

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

MPP-16

♦ILDIKÓ IMREFI[1], ENKHTUUL BOLDPUREV[1], SÁNDOR CSÍKOS[1], PÉTER JÁNOS BEREK-NAGY[1], GALIYA AKHMETOVA[1], BURENJARGAL OTGONSUREN[2], GÁBOR M. KOVÁCS[1], DÁNIEL G. KNAPP[1]

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

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

MPP-17

♦NAPSUGÁR KAVALECZ[1], NORBERT ÁG[1], LEVENTE KARAFFA[1], CLAUDIO SCAZZOCCHIO[2], MICHEL FLIPPHI[1], ERZSÉBET FEKETE[1]

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

[1]Department of Biochemical Engineering, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary; [2]Department 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 PFLIEGLER[1], ALEXANDRA IMRE[1], HANNA V. RÁCZ[1], PÉTER OLÁH[2, 3], ZSUZSA ANTUNOVICS[4], NELLI SZILÁGYI[1], ILONA DÓCZI[5], LÁSZLÓ MAJOROS[6], RENÁTÓ KOVÁCS[6, 7], ISTVÁN PÓCSI[1], KSENIJA LOPANDIC[8]

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

[1]Department of Molecular Biotechnology and Microbiology, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary; [2]Department of Dermatology, University Hospital of Düsseldorf, Düsseldorf, Germany; [3]Department of Dermatology, Venereology and Oncodermatology, Faculty of Medicine, University of Pécs, Pécs; [4]Department of Genetics and Applied Microbiology, Faculty of Science and Technology, University of Debrecen, Debrecen; [5]Institute of Clinical Microbiology, Faculty of Medicine, University of Szeged, Szeged; [6]Department of Medical Microbiology, Faculty of Medicine; [7]Faculty of Pharmacy, University of Debrecen, Debrecen, Hungary; [8]Department 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 NAGY[1], ESZTER MEZEI[2], ORSOLYA NAGY[1, 3], TAMÁS BAKONYI[4], NIKOLETT CSONKA[1], MAGDOLNA KAPOSI[1], ANITA KOROKNAI[1], KATALIN SZOMOR[5], ZITA RIGÓ[5], ZSUZSANNA MOLNÁR[2], ÁGNES DÁNIELISZ[2], MÁRIA TAKÁCS[1, 3]

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

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

10.00-10.30
LSP-4
♦KATA HORVÁTI[1], BERNADETT PÁLYI[2], JUDIT HENCZKÓ[2], GYULA BALKA[3], ELEONÓRA SZABÓ[4], VIKTOR FARKAS[1], KINGA FODOR[5], SZILVIA BŐSZE[1]

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

[1]MTA-ELTE Research Group of Peptide Chemistry, Hungarian Academy of Sciences; [2]National Biosafety Laboratory, National Public Health Center; [3]Department of Pathology, University of Veterinary Medicine; [4]Laboratory 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 BENEDEK[1], FLÓRA SZENTGYÖRGYI[1, 2], ISTVÁN SZABÓ[2], BALÁZS KRISZT[2], ANDRÁS TÁNCSICS[1]

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

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

12.00-12.30
MSP-39
♦ANDRÁS TÁNCSICS[1], FRUZSINA RÉVÉSZ[1], ALEXANDER J. PROBST[2], PERLA ABIGAIL FIGUEROA GONZALEZ[2], SINCHAN BANERJEE[1], BALÁZS KRISZT[3]

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

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

12.30-13.00
MSP-4

♦ZSUZSANNA NAGYMÁTÉ[1], LAURA JURECSKA[1], CSABA ROMSICS[1], FANNI TÓTH[1], VIKTÓRIA BÓDAI[2], PÉTER SÁTORHELYI[2], ÉVA MÉSZÁROS[3], BALÁZS ERDÉLYI[2], KÁROLY MÁRIALIGETI[1]

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

[1]Department of Microbiology, Faculty of Science, ELTE-Eötvös Loránd University; [2]Fermentia Ltd., Budapest, Hungary; [3]Institute 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 Gácser and Valter Péter Pfliegler

10.00-10.15
MOP-1

♦KRISZTINA SZABÓ[1], ÁGNES JAKAB[1], SZILÁRD PÓLISKA[2], KATALIN PETRÉNYI[1], KATALIN KOVÁCS[1], HASAN BOU ISSA LAMA[1], TAMÁS EMRI[1], ISTVÁN PÓCSI[1], VIKTOR DOMBRÁDI[1]

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

[1]Department of Molecular Biotechnology and Microbiology, Faculty of Science and Technology; [2]Genomic 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 IMRE[1], HANNA V. RÁCZ[1], ZSUZSA ANTUNOVICS[2], ZOLTÁN RÁDAI[3], RENÁTÓ KOVÁCS[4, 5], KSENIJA LOPANDIC[6], ISTVÁN PÓCSI[1], WALTER P. PFLIEGLER[1]

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

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

10.30-10.45
MOP-3

LILIÁNA TÓTH[1], GYÖRGYI VÁRADI[2], ZOLTÁN KELE[2], ATTILA BORICS[3], GÁBOR K. TÓTH[2, 4], FLORENTINE MARX[5], ♦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

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

10.45-11.00
MOP-4

♦GÁBOR NAGY[1], CSILLA SZEBENYI[1], AMANDA VAZ[1], OLIVÉR JÁGER[1], SANDUGASH IBRAGIMOVA[1], YIYOU GU[2], IBRAHIM ASHRAF[2], CSABA VÁGVÖLGYI[1], TAMÁS PAPP[1]

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

[1]Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary; [2]Los 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 ZABIÁK[1], FERENC TAKÁCS[2], ERZSÉBET SÁNDOR[1]

FUNGAL POPULATION OF ROTTED WALNUTS AND THEIR ANTIFUNGAL SENSITIVITY

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

11.45-12.00
MOP-6
12.00-11.15

♦ISTVÁN PÓCSI[1], ZSUZSA SZABÓ[1], ÉVA LEITER[1], LÁSZLÓ HORNOK[2]

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

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

12.00-12.15
MOP-7

♦MÁTÉ VADOVICS[1], NÓRA IGAZ[2], ÉVA VERES[1], RÓBERT ALFÖLDI[3], LAJOS NAGY[3], LÁSZLÓ PUSKÁS[3], CSABA VÁGVÖLGYI[1], MÓNIKA KIRICSI[2], ATTILA GÁCSER[1, 4]

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

[1]Department of Microbiology; [2]Department of Biochemistry and Molecular Biology, Faculty of Science and Informatics, University of Szeged; [3]Animal Research, Avidin Ltd.; [4]MTA-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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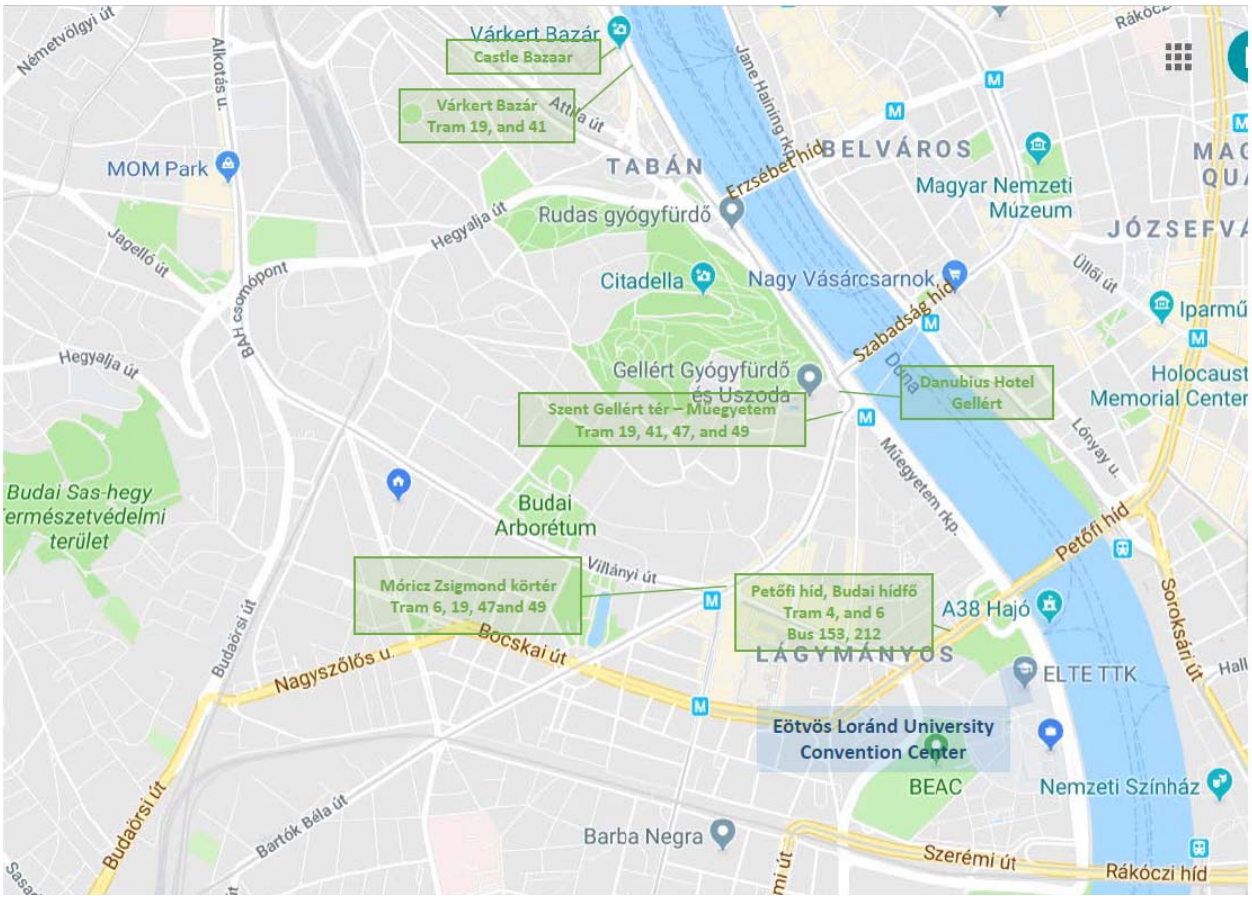
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Castle Bazaar
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ELTE Museum of Mathematics
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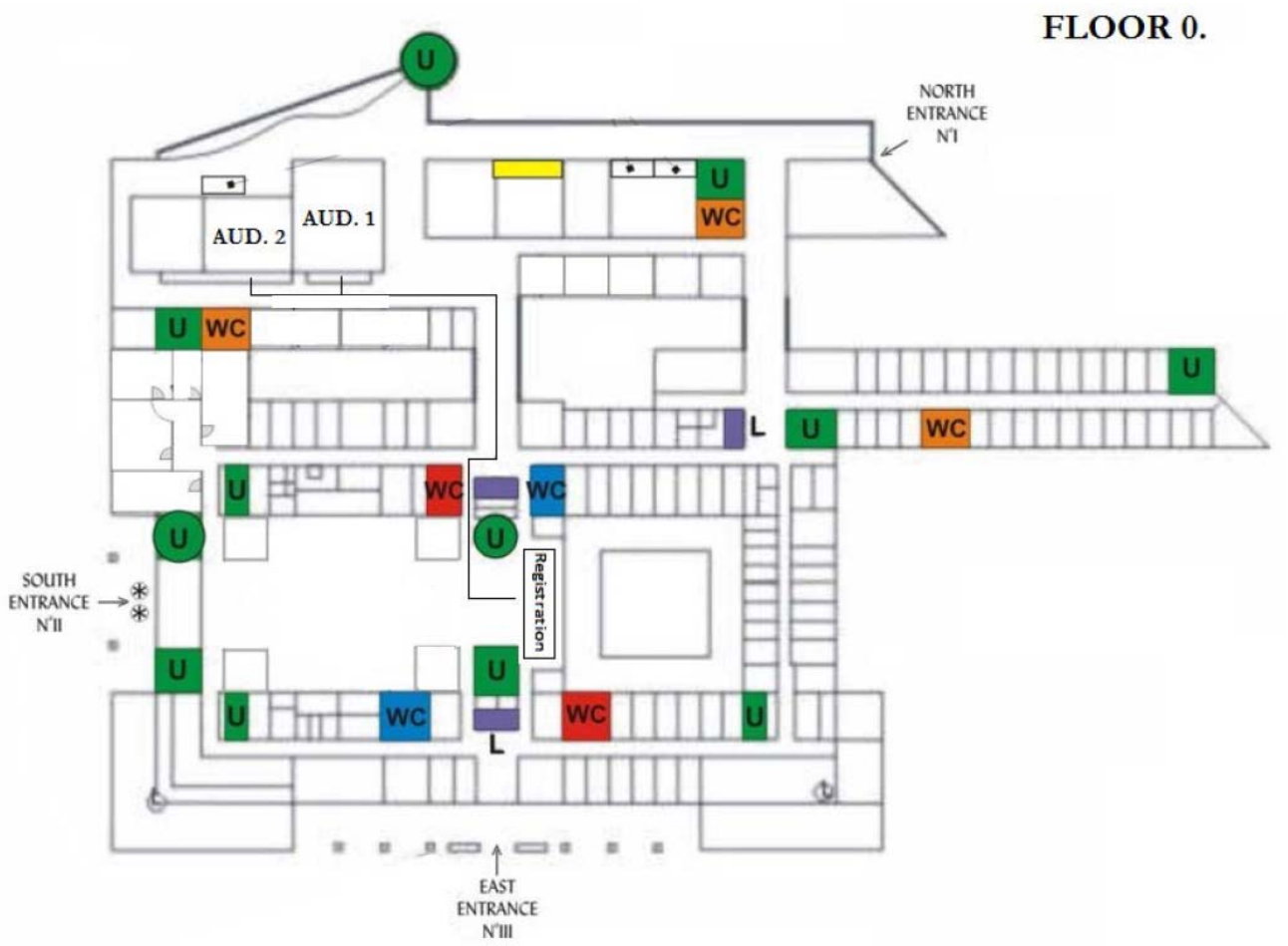
Henryk Sławik rak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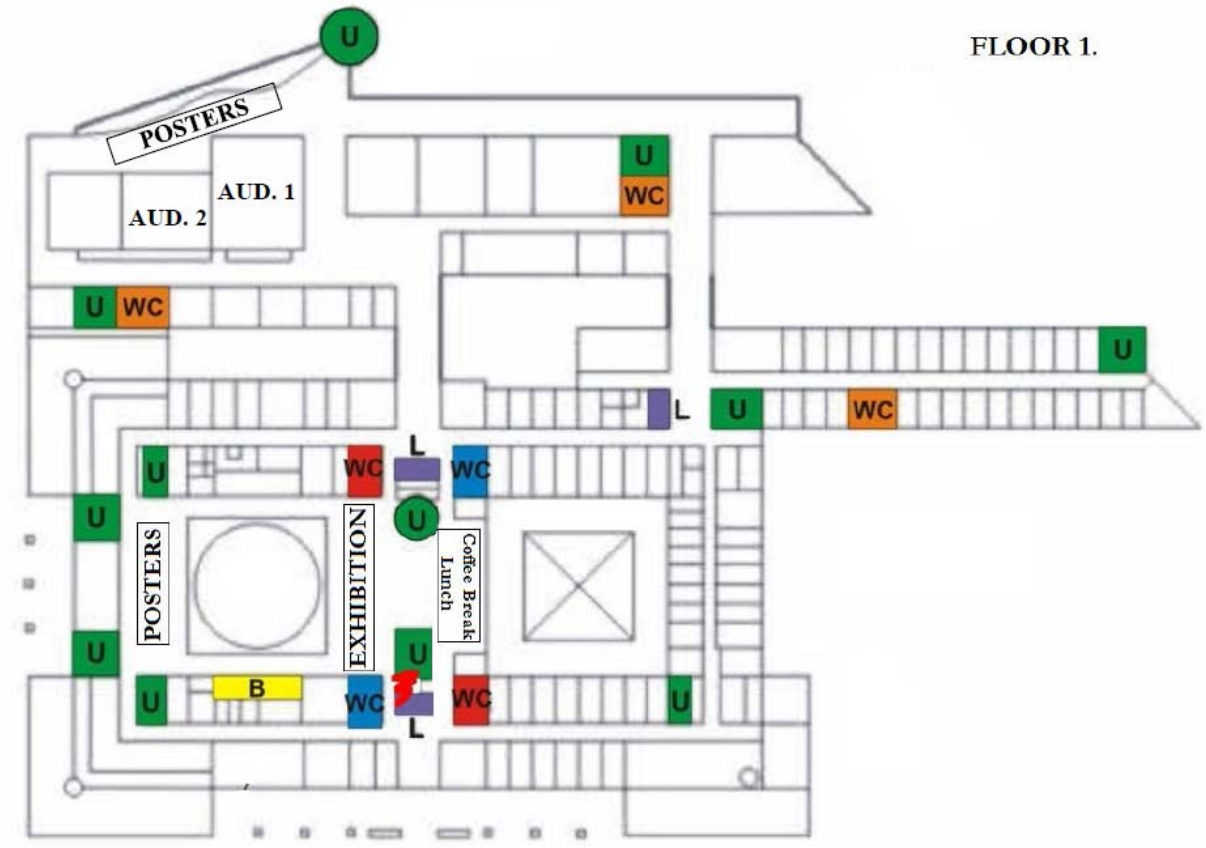
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