



5th Central European Forum for Microbiology

P r o g r a m m e

hosted by the

Hungarian Society for Microbiology

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

Hunguest Hotel Helikon
Keszthely, Lake Balaton, Hungary
October 18–20, 2017

PROGRAMME
of the

**5th Central European Forum for
Microbiology**

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Hunguest Hotel Helikon
Keszthely, Lake Balaton, Hungary
October 18-20, 2017

Programme at a glance

Tuesday, October 17	18.00-21.30	Registration
Wednesday, October 18	8.00-17.00	Registration
Conference Hall	11.00-11.30	Opening Ceremony
	11.30-13.00	Rezső Manninger Memorial Session
	13.00-14.00	Lunch break
Conference Hall	14.00-17.00	Oswald Avery Fungal and Yeast Biotechnology Plenary Session
Festetics Palace – Museum and Events Centre	18:00-	Facultative programme – Visiting the Palace, and fine dining in the castle cellar
Thursday, October 19	8.00-13.00	Registration
Conference Hall	9.00-11.00	Renato Dulbecco Tumorigenic Viruses Plenary Session
Poster Room	11.30-13.00	Environmental Microbiology and Biotechnology Poster Session
	11.30-13.00	Mycology Poster Session
	11.30-13.00	Agricultural and Food Microbiology Poster Session
	13.00-14.00	Lunch break
Room No. 1	14.00-15.15	Móric Kaposi Tumorigenic Viruses Session
Room No. 2	14.00-15.15	Endre Hőgyes Bacteriology Session

	15.45-17.00	Lajos Nékám Mycology Session
Room Gulács	14.00-15.15	Oswald Avery Fungal and Yeast Biotechnology Session
	15.45-17.00	Sir Ronald Ross Environmental Microbiology Session
Poster Room	15.45-17.45	Bacteriology Poster Session
	15.45-17.45	Clinical Microbiology Poster Session
Hunguest Hotel Helikon - Restaurant	19.00-	CEFORM Reception
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Friday, October 20		
Room No. 1	8.30-10.30	Emil von Behring Molecular Diagnostics and Pathogenesis Semiplenary Session
	11.00-13.00	Max Theiler Virology Session
	13.00-13.30	Closing Ceremony and Farewell drink
Room No. 2	8.30-10.30	Nándor Gimesi Environmental Microbiology and Evolution Semiplenary Session
	11.00-12.30	Alfred Hershey Bacteriology Session
Room Gulács	11.00-12.30	Arnold L. Demain Industrial Microbiology Session
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Detailed Programme

Wednesday, October 18

Conference Hall

11.00 Opening Ceremony

Welcome Addresses of

KÁROLY MÁRIALIGETI

President of the Hungarian Society for Microbiology

DANKO HAJSIG

President of the Croatian Microbiological Society

UROŠ PETROVIČ

Slovenian Microbiological Society

11.30-13.00 Rezső Manninger Memorial Session

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

Chairpersons: János Minárovits, and Mikael Rørdam Andersen

Manninger Lecture

11.30-12.00

MÁRIA TAKÁCS

SIGNIFICANCE OF VIRUS GENOME INVESTIGATIONS

National Public Health Institute, Budapest, Hungary

Inaugural Lectures by Honorary Members of the Hungarian Society for Microbiology

12.00-12.30

RONALD P. DE VRIES

FUNGAL BIOLOGY AND POTENTIAL FOR BIOTECHNOLOGICAL APPLICATION OF PLANT BIOMASS

Fungal Physiology, Westerdijk Fungal Biodiversity Institute, Utrecht, Netherlands

12.30-13.00

VLADIMIR MRŠA

SURFACE DISPLAY OF HETEROLOGOUS PROTEINS IN YEAST – FROM UNDERSTANDING BASIC CONCEPTS OF CELL WALL BIOSYNTHESIS TO BIOTECHNOLOGY APPLICATIONS OF SURFACE ENGINEERING

Faculty of Food Technology and Biotechnology, University of Zagreb, Pierottijeva 6, 10000 Zagreb, Croatia

13.00-14.00 Lunch break

Wednesday, October 18

Conference Hall

14.00-17.00 Oswald Avery Fungal and Yeast Biotechnology Plenary Session

Avery, Oswald Theodore Jr. (1877-1955), a Canadian-born American physician and researcher. Avery is best known for the experiment (published in 1944) that isolated DNA as the material of which genes and chromosomes are made. Continuing the research done by Frederick Griffith in 1927, Avery worked with MacLeod and McCarty on the mystery of inheritance. Techniques were available to remove various organic compounds from bacteria, and if the remaining organic compounds were still able to cause R strain bacteria to transform then the substances removed could not be the carrier of genes. Cell compounds treated by protease enzymes did not influence the result of transformation. After treatment with a deoxyribonuclease enzyme the R strain bacteria no longer transformed. This indicated that DNA was the carrier of genes in cells.

Chairpersons: Ronald P. de Vries, and Uroš Petrovič

14.00-14.30

FYP-1

ADRIAN TSANG

REGULATION OF THE BIOSYNTHESIS OF SECONDARY METABOLISM IN *ASPERGILLUS NIGER*

Centre for Structural and Functional Genomics, Concordia University, 7141 Sherbrooke Street West, Montreal, Quebec H4A2P1, Canada

14.30-15.00

FYP-2

MIKAEL RØRDAM ANDERSEN

APPLICATIONS OF NETWORK BIOLOGY TO FUNGAL BIOTECHNOLOGY

Technical University of Denmark, Department of Biotechnology and Biomedicine, Lyngby, DK

15.00-15.30

FYP-3

BERNHARD SEIBOTH^{1,2}

RECOMBINANT PROTEIN PRODUCTION IN *TRICHODERMA REESEI* BY TUNABLE AND CAZYME INDEPENDENT PROMOTERS

¹Institute of Chemical, Environmental & Biological Engineering, TU Wien; ²Austrian Centre of Industrial Biotechnology (ACIB) GmbH, Vienna, Austria

15.30-16.00 Coffee Break

Chairpersons: Bernhardt Seiboth, and Adrian Tsang

16.00-16.30

FYP-4

ANAMARIJA ŠTAFI¹, MARINA SVETEC MIKLENIĆ¹, BOJAN ŽUNAR¹, BOŽIDAR ŠANTEK², ♦IVAN KREŠIMIR SVETEC¹

GENETIC RECOMBINATION IN YEAST - FROM FUNDAMENTAL RESEARCH TO STRAIN CONSTRUCTION

¹Laboratory for Biology and Microbial Genetics; ²Laboratory for Biochemical Engineering, Industrial Microbiology and Malting and Brewing Technology, Faculty of Food Technology and Biotechnology, University of Zagreb, Zagreb, Croatia

16.30-17.00

FYP-5

UROŠ PETROVIČ

POLYGENIC TRAITS IN YEAST BIOTECHNOLOGY

Department of Biology, Biotechnical Faculty, University of Ljubljana, Ljubljana, Slovenia

18.00- Facultative programme – Visiting the Festetics Palace, and fine dining in the castle cellar

Thursday, October 19

Conference Hall

9.00-11.00 Renato Dulbecco Tumorigenic Viruses Plenary Session

Dulbecco, Renato (1914-2012), an Italian American Nobel Prize laureate (1975). He studied at the University of Turin, and graduated in pathology. He served in the Italian army in World War II on the French and Russian front, but later joined the resistance. After the war, he met Salvador Luria and Rita Levi-Montalcini, who helped him to move to the US. At the Indiana University, he worked with Salvador Luria. Later he joined Max Delbrück's Phage group. Here he started to work with oncoviruses. Together with his student, Howard Temin, and David Baltimore, they made fundamental discoveries on the interaction between viruses and the genetic material of the cell. In 1962, he moved to the Salk Institute and then in 1972 to The Imperial Cancer Research Fund (UK). From 1993 to 1997 he moved back to Italy. Besides fundamental oncovirus research, he was among the discoverers of RNA dependent DNA polymerase, the initiators of the Human Genome Project, and he took part in the development of successful HIV reverse transcriptase inhibitors (e.g. zidovudine).

Chairpersons: Lawrence Banks, and József Kónya

TPS-1

9.00-9.30

LAWRENCE BANKS

HUMAN PAPILLOMAVIRUSES: FROM INFECTIOUS ENTRY TO MALIGNANCY

ICGEB, Trieste, Italy

9.30-10.00

TPS-2

VJEKOSLAV TOMAIĆ

HPV-16 E7 PHOSPHORYLATION AS A SIGNATURE OF MALIGNANCY

Molecular Medicine, Ruđer Bošković Institute, Zagreb, Croatia

10.00-10.30

TPS-3

◆ ANITA SZALMÁS¹, VJEKOSLAV TOMAIĆ², PAOLA MASSIMI³, ESZTER GYÖNGYÖSI¹, JÓZSEF KÓNYA¹, LAWRENCE BANKS³

REPROGRAMMING OF TYROSINE PHOSPHORYLATION REGULATED SIGNALLING PATHWAYS BY HPV ONCOPROTEINS

¹Department of Medical Microbiology, Faculty of Medicine, University of Debrecen, Debrecen, Hungary; ²Division of Molecular Medicine, Rudjer Boskovic Institute, Zagreb, Croatia; ³Tumour Virology Research Group, ICGEB, Trieste, Italy

10.30-11.00

TPS-4

JÁNOS MINÁROVITS

ONCOVIRUS-INDUCED EPIGENETIC ALTERATIONS IN HOST CELLS

Department of Oral Biology and Experimental Dental Research, Faculty of Dentistry, University of Szeged, Szeged, Hungary

13.00 – 14.00 Lunch Break

Thursday, October 19

Poster Room

11.30-13.00 Environmental Microbiology Poster Session

EMP-1

ATTILA BODOR^{1,2}, PÉTER PETROVSZKI¹, NAILA BOUNEDJOUIM¹, ÁGNES ERDEINÉ KIS^{1,2}, KRISZTIÁN LACZI¹, GÁBOR RÁKHELY^{1,2}, KATALIN PEREI^{1,2}

AN APPROACH FOR COMPLETE ENVIRONMENTAL REHABILITATION OF A HUNGARIAN RAILWAY STATION AREA POLLUTED WITH USED LUBRICATING OILS (ULOS): A CASE STUDY

¹Department of Biotechnology; ²Institute of Environmental and Technological Sciences, University of Szeged; ³Institute of Biophysics, Biological Research Centre, Hungarian Academy of Sciences, Szeged, Hungary

EMP-2

◆ MILÁN FARKAS¹, FRUZSINA RÉVÉSZ¹, BALÁZS KRISZT¹, SÁNDOR SZOBOSZLAY¹, ANDRÁS TÁNCICS²

ENRICHMENT OF NITRATE REDUCER TOLUENE DEGRADING BACTERIA FROM A HYPOXIC BTEX CONTAMINATED SITE.

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

EMP-3

FRUZSINA RÉVÉSZ¹, MILÁN FARKAS¹, ISTVÁN SZABÓ², BALÁZS KRISZT², ◆ ANDRÁS TÁNCICS¹

COMPARATIVE ANALYSIS OF BACTERIAL ENRICHMENT CULTURES DEGRADING AROMATIC HYDROCARBONS UNDER AEROBIC OR MICROAEROBIC CONDITIONS

¹Regional University Center of Excellence; ²Department of Environmental Safety and Ecotoxicology, Szent István University, Gödöllő, Hungary

EMP-4

MÁRTA EMŐKE GULYÁS

ANTIMICROBIALS AND ECOSYSTEM SERVICES – RISING QUESTIONS

National Food Microbiology Reference Laboratory, Food and Feed Safety Directorate, National Food Safety Office, Budapest, Hungary

EMP-5

◆ ANDREA RÓNAVÁRI¹, NÓRA IGAZ², GOPISETTY MOHANA KRISHNA², BETTINA SZERENCSES³, DÁVID KOVÁCS², CSABA VÁGVÖLGYI³, IMRE MIKLÓS BOROS², ZOLTÁN KÓNYA¹, MÓNICA KIRICSI², ILONA PFEIFFER³

BIOLOGICAL ACTIVITY OF SILVER AND GOLD NANOPARTICLES PREPARED BY CELL-FREE EXTRACT OF *PHAFFIA RHODOZYMA*

¹Department of Applied and Environmental Chemistry; ²Department of Biochemistry and Molecular Biology; ³Department of Microbiology, University of Szeged, Szeged, Hungary

EMP-6

◆ ADRIEN KASZAP^{1,2}, ANIKÓ SERES², PÉTER I. NAGY², FLÓRA SEBŐK¹, KLÁRA SZENTMIHÁLYI³, SÁNDOR SZOBOSZLAY¹, BALÁZS KRISZT¹, CSABA DOBOLYI¹

CAN THE FUNGAL BIOMASS CONTAMINATED WITH COPPER AND LEAD BE INTEGRATED IN THE FOOD CHAIN IN SOIL?

¹Department of Environmental Safety and Ecotoxicology; ²Department of Zoology and Animal Ecology, Faculty of Agricultural and Environmental Sciences, Szent István University, Gödöllő; ³Plasma Chemistry Research Group, Institute of Materials and Environmental Chemistry, Research Centre for Natural Sciences, Hungarian Academy of Sciences, Budapest, Hungary

EMP-7

◆ ADIYADOLGOR TURBAT¹, DÁVID RAKK¹, ENKH-AMGALAN JIGJID², CSABA VÁGVÖLGYI¹, ANDRÁS SZEKERES¹

DETERMINATION OF PLANT-GROWTH PROMOTING COMPOUND IN ENDOPHYTES, ISOLATED FROM *SOPHORA FLAVESCENS*

¹Department of Microbiology, University of Szeged, Szeged, Hungary; ²Institute of General and Experimental Biology, Mongolian Academy of Science, Ulaanbaatar, Mongolia

EMP-8

◆ RAMÓNA KOVÁCS¹, TIBOR SZILI-KOVÁCS¹, ISTVÁN PARÁDI², ANNA FÜZY¹, PÉTER CSONTOS¹, TÜNDE TAKÁCS¹

ARBUSCULAR MYCORRHIZAL COMMUNITY OF MYCORRHIZOSPHERE IN RELATION TO VEGETATION TYPES OF A SOLONCHAK GRASSLAND IN APAJPUSZTA

¹Institute for Soil Sciences and Agricultural Chemistry, Centre for Agricultural Research, Hungarian Academy of Sciences; ²Department of Plant Physiology and Molecular Plant Biology, Institute of Biology, Faculty of Science, ELTE Eötvös Loránd University, Budapest, Hungary

EMP-9

◆ MÁRTON MUCSI^{1,2}, ORSOLYA GAZDAG¹, GERGELY KRETT^{1,2}, PÉTER CSONTOS¹, ANDREA K. BORSODI², TIBOR SZILI-KOVÁCS¹

STUDY OF STRUCTURAL COMPOSITION AND CATABOLIC ACTIVITIES OF MICROBIAL COMMUNITIES OF SALINE-ALKALINE SOILS AT APAJPUSZTA, HUNGARY

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

EMP-10

JÁNOS KÖMÜVES, JÁNOS KISS, FERENC OLASZ, ◆ ALEXANDRA VERESS

ISOLATION AND IDENTIFICATION OF NOVEL PLASMIDS FROM *ACINETOBACTER* SP.

Agricultural Biotechnology Institute, National Agricultural Research and Innovation Centre, Gödöllő, Hungary

EMP-11

◆ SZABINA LUZICS¹, ÁKOS TÓTH¹, DOROTTYA SÁRKÁNY¹, ILDIKÓ BATA-VIDÁCS¹, BALÁZS BÁLINT², BÁLINT MÁRK VÁSÁRHELYI², ISTVÁN NAGY^{2,3}, JÓZSEF KUKOLYA¹

DE NOVO GENOME PROJECT OF *MICROCOCOIDES HYSTRIXII* TSL3

¹Department of Applied and Environmental Microbiology, Agro-Environmental Research Institute, National Agricultural Research and Innovation Centre, Budapest; ²SeqOmics Biotechnology Ltd., Mórahalom; ³Sequencing Platform, Institute of Biochemistry, Biological Research Centre, Hungarian Academy of Sciences, Szeged, Hungary

EMP-12

HEDVIG D. KURNÁSZ¹, PÉTER URBÁN^{1,2}, SARRA BOUCHELAGHEM¹, RÉKA MESZÉNA¹, CSABA FEKETE^{1,2}, ZOLTÁN GAZDAG^{1,2}, DÁVID NAGY³, ◆ GÁBOR PAPP^{1,2}

COMPARATIVE BACTERIAL METAGENOMIC ANALYSIS OF SEVEN DIFFERENT HUNGARIAN PROPOLIS SAMPLES

¹Department of General and Environmental Microbiology, Institute of Biology, Faculty of Sciences; ²Microbial Biotechnology Research Group, János Szentágothai Research Centre; ³Department of Ecology, Institute of Biology, Faculty of Sciences, University of Pécs, Pécs, Hungary

EMP-13

◆ SÁRA S. SZURÓCZKI, ORSOLYA SÁRKÁNY, ESZTER SÁRI, KÁROLY MÁRIALIGETI, ERIKA TÓTH

STUDY OF BACTERIAL STRAINS ISOLATED FROM FERTŐ: CARBON SOURCE UTILIZATION TESTS AND DETECTION OF NOVEL TAXA

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

EMP-14

ANETT LIPPAI^{1,2}, ATTILA SZABÓ¹, ◆ ERIKA TÓTH¹

MICROBIOLOGICAL INVESTIGATIONS ON THE WATERS OF TWO THERMAL BATHS IN BUDAPEST USING NGS TECHNIQUE

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

EMP-15

◆ FANNI TÓTH, BALÁZS VAJNA, KÁROLY MÁRIALIGETI

FIRST STEPS IN MONITORING THE MICROBIAL COMMUNITY OF MUSHROOM COMPOST AND SEARCHING FOR POTENTIALLY MYCOTOXIN DEGRADING BACTERIA

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

EMP-16

ÁRPÁD SZILÁGYI¹, KATALIN PEREI¹, BARBARA HÓDI¹, GÁBOR RÁKHELY^{1,2,3}

CHARACTERIZATION CELLULOSE AND XYLAN DEGRADING MICROORGANISMS FROM RABBIT GASTROINTESTINAL TRACT

¹Department of Biotechnology, University of Szeged; ²Institute of Biophysics, Biological Research Center, HAS; ³Institute of Environmental and Technological Science, University of Szeged, Szeged, Hungary

11.30-13.00 Mycology Poster Session

MPP-1

◆ NORBERT ÁG¹, MICHEL FLIPPHI¹, GUSTAVO CERQUEIRA², CLAUDIO SCAZZOCCHIO³, LEVENTE KARAFFA¹, ERZSÉBET FEKETE¹

A MECHANISM FOR A SINGLE NUCLEOTIDE INTRON SHIFT

¹Department of Biochemical Engineering, University of Debrecen, Debrecen, Hungary; ²Broad Institute of MIT & Harvard, Cambridge MA, USA; ³Department of Microbiology, Imperial College London, UK

MPP-2

◆ TÜNDE KARTALI¹, DANISH SHAHAB¹, ILDIKÓ NYILASI¹, LÓRÁNT HATVANI¹, LÁSZLÓ KREDICS¹, CSABA VÁGVÖLGYI¹, TAMÁS PAPP²

DETECTION OF DIFFERENT dsRNA PATTERNS IN VARIOUS FUNGAL ISOLATES

¹Department of Microbiology; ²MTA-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-3

◆ NAPSUGÁR KAVALECZ¹, MICHEL FLIPPHI¹, NORBERT ÁG¹, LEVENTE KARAFFA¹, GUSTAVO CERQUEIRA², CLAUDIO SCAZZOCCHIO³, ERZSÉBET FEKETE¹

GENESIS AND LOSS OF SPLICEOSOMAL TWIN INTRONS (“STWINTRONS”), AND THEIR LINK WITH ALTERNATIVE SPLICING AND POST-TRANSCRIPTIONAL REGULATION

¹Department of Biochemical Engineering, University of Debrecen, Debrecen, Hungary; ²Broad Institute of MIT & Harvard, Cambridge MA, US; ³Department of Microbiology, Imperial College London, London, UK

MPP-4

LAJOS ÁCS-SZABÓ, ◆ LÁSZLÓ ATTILA PAPP, MATTHIAS SIPICZKI, IDA MIKLÓS

COMPARISON OF SEQUENTIAL- AND STRUCTURAL EVOLUTION REVEALS PRINCIPLES OF GENOME EVOLUTION OF THE FISSION YEASTS

Department of Genetics and Applied Microbiology, University of Debrecen, Debrecen, Hungary

MPP-5

ILDIKÓ VIG, LAJOS ÁCS-SZABÓ, ◆ LÁSZLÓ ATTILA PAPP, MATTHIAS SIPICZKI, IDA MIKLÓS

STUDY OF THE HUMAN *BUD31* GENE AND ITS COUNTERPARTS

Department of Genetics and Applied Microbiology, University of Debrecen, Debrecen, Hungary

MPP-6

◆ MÁRIÓ GAJDÁCS¹, TÍMEA MOSOLYGÓ¹, EDIT URBÁN², CARMEN SANMARTÍN³, JADWIGA HANDZLIK⁴, ENRIQUE DOMÍNGUEZ-ÁLVAREZ⁵, GABRIELLA SPENGLER¹

SELENOESTER DERIVATIVES AS NOVEL ANTIFUNGAL AND ANTIVIRAL AGENTS

¹Department of Medical Microbiology and Immunobiology; ²Department of Clinical Microbiology, Faculty of Medicine, University of Szeged, Szeged, Hungary; ³Department of Pharmaceutical Chemistry, University of Navarra, Pamplona, Spain; ⁴Department of Technology and Biotechnology of Drugs, Jagiellonian University Medical College, Kraków, Poland; ⁵Institute of Organic Chemistry, Spanish National Research Council, Madrid, Spain

MPP-7

◆ MARINA SVETEC MIKLENIĆ¹, ANAMARIJA ŠTAFIĆ¹, BOJAN ŽUNAR¹, ANTONIO ZANDONA¹, NEŽA ČADEŽ², HRVOJE PETKOVIĆ², IVAN KREŠIMIR SVETEC¹

ANALYSING TARGETED CHROMOSOME DUPLICATION IN YEAST *SACCHAROMYCES CEREVISIAE* BY QPCR

¹Department for Biochemical Engineering, Faculty of Food Technology and Biotechnology, University of Zagreb, Zagreb, Croatia;

²Department of Food Science and Technology, Biotechnical Faculty, University of Ljubljana, Ljubljana, Slovenia

MPP-8

◆ FLÓRA SEBŐK¹, CSABA DOBOLYI^{1,2}, KATALIN INOTAI², MÁRTA DOBRÓNÉ TÓTH³, SÁNDOR SZOBOSZLAY¹, BALÁZS KRISZT¹, DONÁT MAGYAR⁴

FILAMENTOUS FUNGI INHABITING REGWEED POLLEN

¹Department of Environmental Safety and Ecotoxicology, Faculty of Agricultural and Environmental Sciences, Szent István University, Gödöllő;

²Department of Applied and Environmental Microbiology, Research Institute of Agro-Environmental Sciences, National Agricultural Research and Innovation Center, Budapest;

³Institute of Environmental Science, University of Nyíregyháza, Nyíregyháza;

⁴Department of Air Hygiene and Aerobiology, National Public Health Center, Budapest, Hungary

MPP-9

HAJNALKA CSOMA, HAJNALKA TÓTH, LAJOS ÁCS-SZABÓ, ◆ MATTHIAS SIPICZKI

GENETIC DIVERSITY OF THE SPOILAGE YEAST *ZYGOSACCHAROMYCES LENTUS*

Department of Genetics and Applied Microbiology, University of Debrecen, Debrecen, Hungary

MPP-10

◆ CSILLA SZEBENYI¹, GÁBOR NAGY¹, GRACE VAZ AMANDA¹, ESZTER TÓTH¹, CSABA VÁGVÖLGYI¹, TAMÁS PAPP²

DISRUPTION OF GENES *cotH1* AND *cotH2* OF *MUCOR CIRCINELLOIDES* VIA THE CRISPR/CAS9 SYSTEM

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

MPP-11

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

PRODUCTION OF ITACONIC ACID FROM D-XYLOSE BY *ASPERGILLUS TERREUS*

¹Department of Biochemical Engineering; ²Department of Food Science, University of Debrecen, Hungary; ³Institute of Chemical, Environmental and Biological Engineering, TU Wien, Austria

MPP-12

◆ LÁSZLÓ KREDICS¹, BETTINA BÓKA¹, LIQIONG CHEN¹, ORSOLYA KEDVES¹, VIKTÓRIA IMRE¹, GYÖRGY SIPOS², CSABA VÁGVÖLGYI¹

ISOLATION, IDENTIFICATION AND CHARACTERIZATION OF POTENTIAL MICROBIAL BIOCONTROL AGENTS OF *ARMILLARIA* SPECIES DAMAGING TREE CROPS

¹Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged; ²Department of Forest Protection, Institute of Sylviculture and Forest Protection, University of Sopron, Sopron, Hungary

MPP-13

CHETNA TYAGI¹, TAMÁS MARIK¹, ANDRÁS SZEKERES¹, CSABA VÁGVÖLGYI¹, ◆ LÁSZLÓ KREDICS¹, FERENC ÖTVÖS²

FIRST REPORT OF COMPUTATIONAL STRUCTURE ELUCIDATION OF TRIPLEURIN XIIC PRODUCED BY STRAIN *TRICHODERMA PLEUROTII* TPHU1

¹Department of Microbiology, Faculty of Science and Informatics, University of Szeged; ²Institute of Biochemistry, Biological Research Centre, Szeged, Hungary

MPP-14

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

FUNCTIONAL ROLE OF *HXN* GENES IN THE NICOTINATE CATABOLISM OF *ASPERGILLUS NIDULANS*

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

MPP-15

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

COMPREHENSIVE ANALYSIS OF HXNT, AN ENZYME OF THE NICOTINATE CATABOLIC ROUTE

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

11.30-13.00 Agricultural and Food Microbiology Poster Session

AFP-1

◆ORSOLYA GAZDAG, TÜNDE TAKÁCS, MÁRTON MUCSI, LÁSZLÓ KÖDÖBÖCZ, ILONA VILLÁNYI, TIBOR SZILI-KOVÁCS

COMPARISON OF ORGANIC AND CONVENTIONAL LAND USE IN NYÍREGYHÁZA BASED ON SOIL MICROBIOLOGY AND CATABOLIC ACTIVITY

Soil Biology, Institute for Soil Sciences and Agricultural Chemistry, Centre for Agricultural Research, Budapest, Hungary

AFP-2

◆RÓZSA MÁTÉ¹, ÁKOS TÓTH², ÉVA KÁRPÁTI³, JÓZSEF KUKOLYA⁴, JÓZSEF KUTASI⁵

A SURVEY ON THE SPECIES DIVERSITY OF CELLULOSE AND XYLAN HYDROLYSING SOIL BACTERIA IN SOIL SAMPLES TAKEN FROM AGRICULTURAL AREAS, BY CULTURING METHODS

¹BioFil Microbiological, Biotechnological and Biochemical Ltd.; ²Department of Applied and Environmental Microbiology, Agro-Environmental Research Institute, National Agricultural Research and Innovation Centre; ³Saniplant Biotechnological Research and Development Ltd.; ⁴Department of Applied and Environmental Microbiology, Agro-Environmental Research Institute, National Agricultural Research and Innovation Centre; ⁵BioFil Microbiological, Biotechnological and Biochemical Ltd., Budapest, Hungary

AFP-3

◆NIKOLETTA PÉK¹, RITA KOVÁCS², ILDIKÓ PUSPÁN², CSILLA IMRE², RÓZSA MÁTÉ², JÓZSEF KUTASI², ÉVA KÁRPÁTI¹

ANTAGONISTIC EFFECTS OF *BACILLUS SUBTILIS* AND *PSEUDOMONAS CHLORORAPHIS* BACTERIA ON GROWTH OF SOIL BORNE PLANT PATHOGENIC FUNGI IN LABORATORY TESTS

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

AFP-4

◆GERGELY UJVÁRI¹, JÚLIA MARGIT ASZALÓS¹, ANDREA K. BORSODI¹, TIBOR SZILI-KOVÁCS², MÁRTON MUCSI², GERGELY KRETT², ZOLTÁN SZALAI³, KÁROLY MÁRIALIGETI¹

COMPARISON OF DIVERSITY AND ACTIVITY OF SOIL BACTERIA INHABITING MAIZE FIELD AND GRASSLAND WITH SIMILAR LOCATION AND SOIL PROPERTIES – A CASE STUDY

¹Department of Microbiology, Faculty of Science, ELTE Eötvös Loránd University; ²Institute for Soil Sciences and Agricultural Chemistry, Centre for Agricultural Research, Hungarian Academy of Sciences; ⁴Department of Environmental and Landscape Geography, Faculty of Science, ELTE Eötvös Loránd University, Budapest, Hungary

AFP-5

◆BERNADETT DEÁK, ÁGNES BELÁK

EFFECT OF FOOD RELATED BACTERIAL ISOLATES ON SOME FOOD-BORNE PATHOGENIC BACTERIA

Microbiology and Biotechnology Department, Food Faculty, Szent István University, Budapest, Hungary

AFP-6

◆ ANNAMÁRIA GERŐCS¹, SÁRA PÁL¹, KATALIN NEMES-BARNÁS¹, JÁNOS MÁJER², BARNA SZÓKE², FERENC OLASZ¹

BIOLOGICAL DIVERSITY OF YEAST SPECIES FROM MUST SAMPLES OF THE BADACSONY WINE REGION

¹Agricultural Biotechnology Institute, Gödöllő, HUNGARY; ²Research Institute for Viticulture and Enology, Badacsonytomaj, Hungary

AFP-7

◆ TIBOR KERESZTÉNY¹, BALÁZS LIBISCH¹, BEÁTA VITÁNYI¹, ZOLTÁN KERÉNYI², RÓBERT KOCSIS², FERENC OLASZ¹, PÉTER PAPP¹

SURVEY OF *ESCHERICHIA COLI* STRAINS WITH A PATHOGENIC POTENTIAL IN WILD BOAR POPULATIONS OF HUNGARY AND THE EUROPEAN UNION

¹Microbiology Laboratory, Department of Genetics, NARIC-Agricultural Biotechnology Institute, Gödöllő; ²Hungarian Dairy Research Institute Ltd., Mosonmagyaróvár, Hungary

AFP-8

AHMAD MOUWAKEH

CHEMICAL COMPOSITION AND ANTIMICROBIAL ACTIVITY OF *NIGELLA SATIVA* FIXED AND ESSENTIAL OILS

Department of Microbiology & Biotechnology, Szent István Egyetem, Budapest, Hungary

AFP-9

◆ ZSUZSANNA NÉMETH, MÁRTA GULYÁS, JUDIT FARAGÓ, ANNA ZOLTAI, NÁNDORNÉ KOLBL

TESTING OF THE MICROBIOLOGICAL EFFICIENCY OF DISINFECTANTS USED IN FOOD INDUSTRY IN HUNGARY

Food and Feed Safety Directorate, National Food Chain Safety Office, Budapest, Hungary

AFP-10

◆ CSABA NÉMETH¹, ADRIENN TÓTH², JÓZSEF SURÁNYI², FERENC HORVÁTH², DÁVID LÁNG¹, TAMÁS NÉMETH¹, TAMÁS BÉTÉRI¹

MICROBIOLOGICAL CONDITION OF LIQUID WHOLE EGG PRODUCTS WHICH ARE PRESERVED BY VARIOUS METHOD

¹Capriovus Ltd., Szigetcsép; ²Department of Refrigeration and Livestock Products' Technology, Szent István University, Budapest, Hungary

AFP-11

◆ BORBÁLA OLÁHNÉ HORVÁTH¹, VIVIEN KORMOS², EDINA NAGY², ILDIKÓ MAGYAR¹

INFLUENCE OF THE SUGAR CONCENTRATION OF GRAPE MUST ON THE GROWTH KINETICS OF WINE RELATED STRAINS OF *STARMERELLA BACILLARIS* (SYN. *CANDIDA ZEMPLININA*)

¹Department of Oenology; ²Department of Brewing and Distilling, Szent István University, Budapest, Hungary

AFP-12

◆ MELINDA PÁZMÁNDI^{1,2}, MYRIAM BENHALIMA^{1,3}, ZOLTÁN KOVÁCS², ANNA MARÁZ⁴

METABOLISM OF PROTEINS AND PEPTIDES AS SOLE GROWTH SUBSTRATES BY *LACTOBACILLUS* AND *LACTOCOCCUS* STRAINS

¹Department of Microbiology and Biotechnology; ²Department of Food Process Engineering, Faculty of Food Science, Szent István University, Hungary; ³Département I.S.S.B.A, École d'ingénieurs de l'Université d'Anger, Anger, France; ⁴Department of Microbiology and Biotechnology, Faculty of Food Science, Szent István University, Budapest, Hungary

AFP-13

◆ LINH TA PHUONG, ERIKA BUJNA, SZILÁRD KUN, RÉKA JUHÁSZ

THE EFFECT OF TEXTURAL ATTRIBUTES ON THE APPLICABILITY OF GEL-BASED MICROCAPSULES AS MICRO DELIVERY SYSTEM FOR PROBIOTIC BACTERIA

Szent István University, Budapest, Hungary

Thursday, October 19

Room No. 1

14.00-15.15 Móric (Moritz) Kaposi Tumorigenic Viruses Session

Kaposi, Móric (1837-1902) Hungarian physician, dermatologist. The Kaposvár born Moritz Kohn entered the Jewish primary school. He continued his secondary school studies in Kaposvár, but graduated in Pozsony (today Bratislava, Slovakia). In 1856, he started medical studies at the University of Vienna. He was called medical doctor in 1861, but also obtained surgeon, and gynecologist qualifications some years later. In 1866, he became the assistant of the dermatology professor of the university Ferdinand von Hebra. He married Martha Hebra, the daughter of his professor, catholicized, and changed his name to Kaposi in honour of his birthplace. In 1880 – after the death of his professor -, he became the head of the Dermatology Clinic at the Vienna University. He was a syphilitologist, but as a smart, keen-eyed diagnostician, and a productive author, he first diagnosed several dermatological syndromes (e.g. Xeroderma pigmentosum, Rhinoscleroma, Lupus erythematosus, Lichen ruber moniliformis, Impetigo herpetiformis, and the Kaposi-sarcoma). Some of his classical textbooks were translated into several languages. He had a decisive role in the Hungarian dermatology also.

Chairpersons: János Minárovits, and Vjekoslav Tomaić

14.00-14.15

TVS-1

◆ ESZTER GYÖNGYÖSI, ANITA SZALMÁS, BRIGITTA LÁSZLÓ, JÓZSEF KÓNYA, GYÖRGY VERESS

PHYLOGENETIC ANALYSIS OF HUMAN PAPILLOMAVIRUS (HPV) 33 LONG CONTROL REGION (LCR)

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

14.15-14.30

TVS-2

◆ BRIGITTA LÁSZLÓ, ESZTER GYÖNGYÖSI, ANITA SZALMÁS, GYÖRGY VERESS, JÓZSEF KÓNYA

ALTERATION OF CELLULAR RNA EXPRESSION IN HPV16 E6 AND E7 EXPRESSING HUMAN KERATINOCYTES

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

14.30-14.45

TVS-3

◆ ANDREA HETTMANN¹, ANETT DEMCSÁK², ÁDÁM BACH³, GÁBOR DECSI⁴, ÁGNES DENC¹, DÓRA PÁLINKÓ³, LÁSZLÓ ROVÓ³, GABRIELLA TERHES⁵, EDIT URBÁN⁵, KATALIN NAGY⁴, MÁRIA TAKÁCS¹, JÁNOS MINÁROVITS²

PREVALENCE OF HUMAN PAPILLOMAVIRUS (HPV) AND TORQUE TENO VIRUS (TTV) IN SALIVA AND TUMOR BIOPSY SAMPLES OF HEAD AND NECK CANCER PATIENTS IN HUNGARY

¹Virology, Hungarian Public Health Institute, Budapest; ²Department of Oral Biology and Experimental Dental Research, Faculty of Dentistry; ³Department of Otorhinolaryngology and Head-Neck Surgery; ⁴Department of Oral Surgery; ⁵Institute of Clinical Microbiology, Faculty of Medicine, University of Szeged, Szeged, Hungary

14.45-15.00

TVS-4

◆ ZSÓFIA NAGY¹, GÁBOR KARDOS¹, MIHÁLY SZINAI¹, ATTILA SZÜCS², ZOLTÁN PETHŐ³, KRISZTINA SZARKA¹

FUNCTIONAL ANALYSIS OF GENOME POLYMORPHISMS IN HUMAN PAPILLOMAVIRUS 11 ASSOCIATED WITH RECURRENT RESPIRATORY PAPILLOMATOSIS WITH DIFFERENT CLINICAL SEVERITY

¹Department of Medical Microbiology, ²Clinic of Otorhinolaryngology and Head & Neck Surgery, Faculty of Medicine; ³Department of Biophysics and Cell Biology, Faculty of Science and Informatics, University of Debrecen, Debrecen, Hungary

15.00-15.15

TVS-5

◆ KRISZTINA SZARKA¹, ZSÓFIA NAGY¹, MIHÁLY SZINAI¹, GÁBOR KARDOS¹, ATTILA SZŰCS²

GENOME POLYMORPHISMS IN HPV6S FROM BENIGN RESPIRATORY AND GENITAL LESIONS

¹Department of Medical Microbiology; ²Clinic of Otorhinolaryngology and Head & Neck Surgery, Faculty of Medicine, University of Debrecen, Debrecen, Hungary

15.15 – 15.45 Coffee Break

Thursday, October 19

Room No. 2

14.00-15.15 Endre Hógyes Bacteriology Session

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

Chairpersons: Katalin Burián, and Elisabeth Nagy

14.00-14.15

BOP-1

◆ KATALIN BURIÁN, BETTINA MAGYARI, TÍMEA MOSOLYGÓ, VALÉRIA ENDRÉSZ, DEZSŐ VIRÓK, DÁVID KÓKAI

EFFECTS OF MUCOLITICS IN IN VITRO AND IN VIVO *CHLAMYDOPHILA PNEUMONIAE* INFECTION

Department of Medical Microbiology and Immunobiology, University of Szeged, Szeged, Hungary

14.15-14.30

BOP-2

◆ BLAZENKA HUNJAK¹, DIANA BRLEK GORSKI², ZDENKA PERŠIĆ¹, ANAMARIJA PEJNOVIĆ¹, ANDI EREGA¹, ANAMARIJA FABRIS¹

LISTERIOSIS IN PREGNANT WOMEN IN CROATIA

¹Microbiology; ²Ecology, Croatian Institute of Public Health, Zagreb, Croatia

14.30-14.45

BOP-3

◆ GÁBOR KARDOS, BENCE BALÁZS, ADINA FÉSŰS, ORSOLYA GORÁCZ, HAJNALKA TÓTH

LINK BETWEEN ANTIBIOTIC CONSUMPTION AND OCCURRENCE OF MULTIRESISTANT GRAM POSITIVE BACTERIA: A TIME-SERIES ANALYSIS

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

14.45-15.00

BOP-4

◆ HAJNALKA TÓTH, BENCE BALÁZS, JULIANNA MÓZES, GÁBOR KARDOS

THE RELATIONSHIP BETWEEN ANTIBIOTIC CONSUMPTION AND RESISTANCE IN CASE OF GRAM-NEGATIVE BACTERIA: THE DOWNWARD SPIRAL FROM CEPHALOSPORIN CONSUMPTION TO COLISTIN RESISTANCE

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

15.00-15.15

BOP-5

◆ BENCE BALÁZS, JULIANNA MÓZES, IDAN BLUM, ANDRÁS SZILÁGYI, GÁBOR KARDOS

CHANGES IN THE DOMINANT CARBAPENEMASE GENE IN *ACINETOBACTER BAUMANNII*

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

15.15-15.45 Coffee break

15.45-17.00 Lajos Nékám Mycology Session

Nékám, Lajos (1868-1957), Hungarian physician, dermatologist, professor. He obtained his medical doctors' diploma in 1889, and became assistant at the morbid anatomy department of the Budapest University. In 1896, he was appointed the director of the Bacteriology Institute of the capital. From 1906, he was the professor of the Dermatology Clinic at the University of Budapest. His studies on poikilodermy, on the histological localization of Darier-disease, and the skin appearance of myeloid leukaemia provided him international reputation. He initiated the dermatological mycological screening schedule in Hungary.

Chairpersons: Anna Maráz, and László Majoros

15.45-16.00

MOP-1

◆ TORDA VARGA¹, KRISZTINA KRIZSÁN¹, JÁNOS GERGŐ SZARKÁNDI², BÁLINT DIMA^{3,4}, BRIGITTA KISS¹, CSABA VÁGVÖLGYI², TAMÁS PAPP², LÁSZLÓ G. NAGY¹

THE EVOLUTION OF AGARICOMYCETES: TRENDS IN DIVERSIFICATION RATES OF LINEAGES AND EVOLUTIONARY FAVOURABLE TRAITS OF FRUITING BODIES

¹Institute of Biochemistry, Biological Research Centre, Hungarian Academy of Science; ²Department of Microbiology, University of Szeged, Szeged, Hungary; ³Department of Plant Anatomy, Faculty of Science, ELTE Eötvös Loránd University, Budapest, Hungary; ⁴Plant Biology, Department of Biosciences, University of Helsinki, Helsinki, Finland

16.00-16.15

MOP-2

◆ ÉVA ALMÁSI¹, KRISZTINA KRIZSÁN¹, ARUN PRASANNA¹, BRIGITTA KISS¹, BÁLINT BALÁZS², ISTVÁN NAGY², LÁSZLÓ NAGY¹

UNDERSTANDING THE GENOMIC CHANGES LEADING TO MORPHOLOGICAL SIMPLIFICATION IN FRUITING BODY FORMING FUNGI

¹Institute of Biochemistry, Biological Research Center, Hungarian Academy of Sciences, Szeged; ²Seqomics Biotechnology Ltd., Mórahalom, Hungary

16.15-16.30

MOP-3

◆ ESZTER JUDIT TÓTH^{1,2}, ÉVA BOROS³, ALEXANDRA HOFFMANN¹, CSABA VÁGVÖLGYI¹, ISTVÁN NAGY³, TAMÁS PAPP^{1,2}

RESPONSE OF THP-1 MONOCYTES TO *CURVULARIA* STRAINS ISOLATED FROM HUMAN INFECTIONS

¹Department of Microbiology, University of Szeged; ²MTA-SZTE "Lendület" Fungal Pathogenicity Mechanisms Research Group; ³Biological Research Centre, Hungarian Academy of Sciences, Szeged, Hungary

16.30-16.45

MOP-4

◆ LÁSZLÓ MAJOROS¹, ZOLTÁN TÓTH¹, TAMÁS KARDOS², FRUZZINA NAGY¹, RENÁTÓ KOVÁCS¹, GÁBOR KARDOS¹, ALÍZ BOZÓ¹

POSTANTIFUNGAL EFFECT OF MICA FUNGIN AGAINST *CANDIDA ALBICANS* COMPLEX

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

16.45-17.00

MOP-5

FRUZZINA NAGY¹, ALÍZ BOZÓ¹, ZOLTÁN TÓTH¹, LAJOS DARÓCZI², GÁBOR KARDOS¹, LÁSZLÓ MAJOROS¹, ◆ RENÁTÓ KOVÁCS¹

IN VITRO SUSCEPTIBILITY PATTERN OF *CANDIDA KEFYR* PLANKTONIC CELLS AND BIOFILMS AGAINST TRADITIONAL ANTIFUNGAL AGENTS

¹Department of Medical Microbiology, Faculty of Medicine; ²Department of Solid State Physics, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary

Thursday, October 19

Room Gulács

14.00-15.15 Oswald Avery Fungal and Yeast Biotechnology Session

Avery, Oswald Theodore Jr. (1877-1955), a Canadian-born American physician and researcher. Avery is best known for the experiment (published in 1944) that isolated DNA as the material of which genes and chromosomes are made. Continuing the research done by Frederick Griffith in 1927, Avery worked with MacLeod and McCarty on the mystery of inheritance. Techniques were available to remove various organic compounds from bacteria, and if the remaining organic compounds were still able to cause R strain bacteria to transform then the substances removed could not be the carrier of genes. Cell compounds treated by protease enzymes did not influence the result of transformation. After treatment with a deoxyribonuclease enzyme, the R strain bacteria no longer transformed. This indicated that DNA was the carrier of genes in cells.

Chairpersons: Vladimir Mrša, and Levente Karaffa

14.00-14.20

FYO-1

EDINA KARANYICZ, ZSUZSA ANTUNOVICS, ♦ MATTHIAS SIPICZKI

INTERSPECIES GENOME CHIMERISATION IN *SACCHAROMYCES*: EVOLUTION OF MOSAIC “*CEVARUM*” AND “*KUDVARUM*” GENOMES BY GARME (GENOME AUTOREDUCTION IN MEIOSIS)

Department of Genetics and Applied Microbiology, University of Debrecen, Debrecen, Hungary

14.20-14.40

FYO-2

♦ RICHARD B. TODD, CAMERON C. HUNTER, JOEL T. STEYER, PIERRE A. MIGEON, DAMIEN J. DOWNES

DUPLICATION AND REDUNDANCY OF BRANCHED CHAIN AMINO ACID BIOSYNTHESIS GENES AND REGULATORS IN *ASPERGILLUS NIDULANS*

Department of Plant Pathology, Kansas State University, Manhattan, KS, US

14.40-15.00

FYO-3

VIGNESHWARI RAMASAMY ARUNA

ENDOPHYTIC FUNGI PRODUCING VALUABLE HOST METABOLITES

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

15.00-15.15

FYO-4

PÉTER ONDER

SOLUTIONS FROM HOLIMEX FROM FERMENTATION TO PURE PRODUCT

Holimex Engineering and Trading Ltd.

15.15-15.45 Coffee break

15.45-17.00 Sir Ronald Ross Environmental Microbiology Session

Ross, Ronald Sir (1857-1932), British medical doctor, Nobel laureate for his work on the transmission of malaria. He was also an amateur artist and natural mathematician. He worked in the Indian Medical Service for 25 years, where he made the ground breaking medical discovery. After resigning from his service in India, he joined the faculty of Liverpool School of Tropical Medicine, and continued as Professor and Chairman of Tropical Medicine of the institute for 10 years. In 1926, he became Director-in-Chief of the Ross Institute and Hospital for Tropical Diseases, which was established in honour of his works. He remained there until his death. He participated in the investigation of transmission of the causative agent of kala azar (*Leishmania donovani*, as he named it later in 1903). Ross developed mathematical models for the study of malaria epidemiology, and published them in a more generalized form in scientific papers.

Chairpersons: Károly Márialigeti, and András Táncsics

15.45-16.00

EMO-1

◆NÓRA TÜNDE ENYEDI¹, DÓRA ANDA¹, ANDREA K. BORSODI¹, SÁRA E. PÁL¹, MIHÁLY ÓVÁRI², KÁROLY MÁRIALIGETI¹, PETRA BODOR³, JUDIT MÁDL-SZÖNYI³, JUDIT MAKK¹

CULTIVATION-BASED IDENTIFICATION OF BACTERIAL COMMUNITIES INHABITING THE RADIOACTIVE HYDROTHERMAL SPRING CAVES OF GELLÉRT HILL, HUNGARY

¹Department of Microbiology; ²Department of Analytical Chemistry; ³Department of Physical and Applied Geology, ELTE Eötvös Loránd University, Budapest, Hungary

15.00-16.15

EMO-2

◆DÓRA ANDA¹, JUDIT MAKK¹, ATTILA SZABÓ¹, LAURA JURECSKA¹, GERGELY KRETT¹, JUDIT MÁDL-SZÖNYI², KÁROLY MÁRIALIGETI¹, ANDREA K. BORSODI¹

NICHE DIFFERENTIATION OF BACTERIAL COMMUNITIES IN THE MOLNÁR JÁNOS HYPOGENIC CAVE (BUDA THERMAL KARST SYSTEM, HUNGARY)

¹Department of Microbiology; ²Department of Physical and Applied Geology, Faculty of Science, ELTE Eötvös Loránd University, Budapest, Hungary

16.15-16.30

EMO-3

◆BERNADETT KISS, ÁRON NÉMETH

THE EFFECT OF LIGHT ON THE SEDIMENTATION OF *CHLORELLA VULGARIS*

¹Budapest University of Technology, Budapest, Hungary

16.30-16.45

EMO-4

◆KRISZTIÁN LACZI¹, ATTILA BODOR^{1,2}, ÁGNES ERDEINÉ KIS^{1,2,3}, NAILA BOUNEDJOU^{1,2}, KATALIN PEREI^{1,2}, TAMÁS KOVÁCS⁴, GÁBOR RÁKHELY^{1,2,3}

ANAEROBIC BIODEGRADATION OF COMPLEX HYDROCARBON POLLUTIONS

¹Department of Biotechnology; ²Institute of Environmental and Technological Sciences, University of Szeged; ³Institute of Biophysics, Biological Research Centre, Hungarian Academy of Sciences, Szeged; ⁴Department of Biotechnology, Nanophagotherapy Center, Enviroinvest Corp., Pécs, Hungary

16.45-17.00

EMO-5

BÉLA RALOVICH

EFFECTS OF THE BIOLOGICAL LIFE AND MANKIND ON THE EARTH (MAINLY BETWEEN 1778 AND 2015)

Balatonberény, Hungary

Thursday, October 19

Poster Room

16.00-18.00 Bacteriology Poster Session

BPP-1

MELINDA SZILÁGYI, NIKOLETT NAGY, ÉVA MÁRTON, ZSUZSANNA BIRKÓ, ♦SÁNDOR BIRÓ

A-FACTOR MEDIATED TRANSCRIPTOMIC CHANGES DURING ANTIBIOTIC PRODUCTION IN *STREPTOMYCES GRISEUS*

Department of Human Genetics, University of Debrecen, Debrecen, Hungary

BPP-2

♦DÉNES GRÓZNER¹, KINGA M. SULYOK¹, BARBARA FORRÓ¹, ZSUZSA KREIZINGER¹, SZILVIA MARTON¹, KRISZTIÁN BÁNYAI¹, ZSUZSANNA RÓNAI², SZILÁRD JÁNOSI², MIKLÓS GYURANECZ¹

SPECIES-SPECIFIC PCR FOR THE DETECTION OF *MYCOPLASMA ANATIS*, *M. ANSERIS* AND *M. CLOACALE*

¹Veterinary Institute, Agricultural research Institute, Hungarian Academy of Sciences; ²Directorate for Animal Health Diagnostics, National Food-chain Safety Office, Budapest, Hungary

BPP-3

MÁRTA NOVÉ¹, ♦ANNAMÁRIA KINCSES¹, ORSOLYA VÁSÁRHELYI¹, VIVIEN UNGER¹, VIKTOR TÓTH¹, JÓZSEF MOLNÁR¹, LEONARD AMARAL^{1,2}, GABRIELLA SPENGLER¹

THE ROLE OF EFFLUX PUMPS AND ENVIRONMENTAL pH IN BACTERIAL MULTIDRUG RESISTANCE

¹Department of Medical Microbiology and Immunobiology, Faculty of Medicine, University of Szeged, Szeged, Hungary; ²Travel Medicine, Institute of Hygiene and Tropical Medicine, Universidade Nova de Lisboa, Lisbon, Portugal

BPP-4

♦ANNAMÁRIA KINCSES¹, GABRIELLA SPENGLER¹, SZILVIA VARGA¹, BORISZ VARGA¹, ÁKOS CSONKA^{2,1}, SHIRLEY SANCHÁ³, SILVA MULHOVO⁴, ANA MARGARIDA MADUREIRA³, MARIA-JOSÉ U. FERREIRA³

CONSTITUENTS OF *CLEISTOCHLAMYS KIRKII* AS ANTIBACTERIALS AND EFFLUX PUMP INHIBITORS

¹Department of Medical Microbiology and Immunobiology; ²Department of Traumatology, Faculty of Medicine, University of Szeged, Szeged, Hungary; ³Research Institute for Medicines, Faculty of Pharmacy, University of Lisbon, Lisbon, Portugal; ⁴Faculty of Mathematics and Natural Sciences, Mozambican and Ethnoscience Study Center (CEMEC), Pedagogic University, Maputo, Mozambique

BPP-5

♦JUDIT KOSZTIK, ILDIKÓ BATA-VIDÁCS, ERZSÉBET BAKA, KATALIN INOTAI, CSABA DOBOLYI, JÓZSEF KUKOLYA

ANTIFUNGAL ACTIVITY OF LACTIC ACID BACTERIA ISOLATED FROM FAECES OF EXOTIC ANIMALS

Department of Applied and Environmental Microbiology, Agro-Environmental Research Institute, National Agricultural Research and Innovation Centre, Budapest, Hungary

BPP-6

ANDREA CSONKA^{1,2}, ANNAMÁRIA KINCSES¹, ♦TÍMEA MOSOLYGÓ¹, ÁDÁM SZABÓ TÖNKI¹, CARMEN SANMARTÍN³, JADWIGA HANDZLIK⁴, ENRIQUE DOMÍNGUEZ-ÁLVAREZ^{3,4,5}, GABRIELLA SPENGLER¹

SELENOCOMPOUNDS AS PROMISING ANTIBACTERIAL AGENTS

¹Department of Medical Microbiology and Immunology; ²Department of Obstetrics and Gynecology, Faculty of Medicine, University of Szeged, Szeged, Hungary; ³Department of Organic and Pharmaceutical Chemistry, School of Pharmacy, University of Navarra, Pamplona, Spain; ⁴Department of Technology and Biotechnology of Drugs, Jagellonian University Medical College, Kraków, Poland; ⁵Institute of Organic Chemistry, Spanish National Research Council (IQOG-CSIC), Madrid, Spain

BPP-7

◆ TÍMEA MOSOLYGÓ¹, YUNSU JANG¹, MUHAMMAD JAWAD NASIM^{2,3}, ANNAMÁRIA KINCSES¹, GABRIELLA SPENGLER¹, KATALIN BURIÁN¹, JADWIGA HANDZLIK³, CLAU JACOB²

ANTIBACTERIAL EFFECT OF ARYLMETHYL SELENOCYANATES WITH VARIOUS AROMATIC MOIETIES

¹Department of Medical Microbiology and Immunology, University of Szeged, Szeged, Hungary; ²Department of Pharmacy, Saarland University, Saarbruecken, Germany; ³Department of Technology and Biotechnology of Drugs, Jagellonian University Medical College, Kraków, Poland

BPP-8

BERTA BARTA HOLLÓ¹, JÓZSEF MAGYARI¹, ANNAMÁRIA KINCSES², MÁRIÓ GAJDÁCS², MÁRTA NOVÉ², BORISZ VARGA², ÁKOS CSONKA², ◆ GABRIELLA SPENGLER², KATALIN MÉSZÁROS SZÉCSÉNYI¹

ANTIBACTERIAL ACTIVITY OF HYDRAZONE-BASED TRANSITION METAL COMPLEXES

¹Department of Chemistry, Biochemistry and Environmental Protection, University of Novi Sad, Novi Sad, Serbia; ²Department of Medical Microbiology and Immunobiology, University of Szeged, Szeged, Hungary

BPP-9

◆ ORSOLYA STAMMNÉ FELDE¹, KATINKA BEKŐ¹, VERONIKA HRIVNÁK¹, KRISZTIÁN KISS², IMRE BIKSI³, ZSUZSA KREIZINGER¹, KINGA MÁRIA SULYOK¹, MIKLÓS GYURANECZ¹

ANTIBIOTIC SUSCEPTIBILITY PROFILES OF *MYCOPLASMA HYOPNEUMONIAE* ISOLATES FROM HUNGARY

¹Veterinary Research Institute, Agricultural Research Center, Hungarian Academy of Sciences, Budapest; ²SCG Diagnostics Ltd., Délegyháza; ³University for Veterinary Science, Budapest, Hungary

16.00-18.00 Clinical Microbiology Poster Session

CMP-1

◆ ÁKOS VINCE ANDREJKOVITS¹, CARMEN CHIRIAC², ANDREA INCZE², ADINA STOIAN³, ANCA GEORGESCU², ERZSÉBET IRINGÓ ZAHARIA KÉZDI²

UNUSUAL HIV-JCV CO-INFECTION

¹1st Infectious Disease Clinic, Mures County, Targu Mures; ²Department of Infectious Diseases, University of Medicine and Pharmacy Tîrgu-Mureş; ³Department of Pathophysiology, University of Medicine and Pharmacy Tîrgu-Mureş, Romania

CMP-2

KÁROLY PÉTER SÁRVÁRI¹, ◆ JÓZSEF SÓKI¹, KATALIN KRISTÓF², MIKLÓS IVÁN², CECILIA MISZTI³, KRISZTINA LATKÓCZY⁴, SZILVIA ZSÓKA MELEGH⁵, EDIT URBÁN¹

MOLECULAR CHARACTERIZATION OF MULTIDRUG RESISTANT *BACTEROIDES FRAGILIS* GROUP ISOLATES FROM HUMAN CLINICAL SAMPLES IN HUNGARY

¹Institute of Clinical Microbiology, University of Szeged, Szeged; ²Institute of Laboratory Medicine, Semmelweis University, Budapest; ³Institute of Medical Microbiology, University of Debrecen, Debrecen; ⁴SYNLAB Ltd., Budapest; ⁵Institute of Medical Microbiology and Immunology, University of Pécs, Pécs, Hungary

CMP-3

DOMINIKÁ CSABÓK, VIKTÓRIA O. JUHÁSZ, ◆ FERENC SOMOGYVÁRI

INVESTIGATION OF THE ARTIFICIALLY SPIKED HUMAN SERUM

Institute of Medical Microbiology and Immunobiology, University of Szeged, Szeged, Hungary

CMP-4

◆ KINGA TÓTH¹, JUDIT PÁSZTI², IVELINA DAMJANOVA², ÁGNES FEHÉR³, KATALIN KRISZTALOVICS³, ÁKOS TÓTH⁴

CORE GENOME MLST ANALYSIS OF *LISTERIA MONOCYTOGENES*: POSSIBLE SEVERAL YEAR-LONG OUTBREAK IN HUNGARY?

¹Department of Microbiology, Faculty of Science, ELTE Eötvös Loránd University; ²Department of Phage and Molecular Typing, National Public Health Institute; ³Department of Hospital Hygiene and Communicable Disease Control, Ministry of Human Capacities; ⁴Department of Bacteriology I, National Public Health Institute, Budapest, Hungary

CMP-5

◆ ANNAMÁRIA VENKEI¹, KRISZTINA UNGVÁRI², KINGA TURZÓ², EDIT URBÁN¹

INVESTIGATION OF THE ANTIMICROBIAL EFFICACY OF VARIOUS ANTISEPTIC AGENTS APPLIED IN PERI-IMPLANTITIS CLINICAL THERAPY ON THE *STREPTOCOCCUS SALIVARIUS* IN VITRO MODEL

¹Institute of Clinical Microbiology, Faculty of Medicine; ²Department of Oral Biology and Experimental Dental Research, Faculty of Dentistry, University of Szeged, Szeged, Hungary

CMP-6

◆ TATJANA VILIBIC-CAVLEK^{1,2}, ZDENKA PERSIC¹, VLADIMIR STEVANOVIC³, TENA ORESKI⁴, BRANKO KOLARIC⁵, MISA KORVA⁶, BOZANA MIKLAUSIC⁷, IRENA TABAIN¹, LJUBO BARBIC³, ANDREA BABIC-ERCEG¹, BERNARD KAIC¹, VLADIMIR SAVIC⁸, MARIO SVIBEN¹, SUNCANICA LJUBIN-STERNAK⁵, TATJANA AVSIC-ZUPANC⁶

PREVALENCE OF LEPTOSPIROSIS, LYMPHOCYTIC CHORIOMENINGITIS AND HANTAVIRUS INFECTIONS IN ENDEMIC REGIONS OF THE CROATIAN MAINLAND, 2016-2017

¹Croatian Institute of Public Health; ²School of Medicine, University of Zagreb; ³Faculty of Veterinary Medicine, University of Zagreb, Zagreb, Croatia; ⁴Biotechnical Faculty, University of Ljubljana, Ljubljana, Slovenia; ⁵Andrija Stampar Teaching Institute of Public Health, Zagreb, Croatia; ⁶Institute of Microbiology and Immunology, Faculty of Medicine, University of Ljubljana, Ljubljana, Slovenia; ⁷General Hospital "Dr Josip Benčević", Slavonski Brod; ⁸Croatian Veterinary Institute, Zagreb, Croatia

CMP-7

◆ TÍMEA WILK¹, AMA SZMOLKA², MÓNI SZABÓ¹, JÁNOS KISS¹, BÉLA NAGY², FERENC OLASZ¹

BIOINFORMATIC ANALYSIS OF *SALMONELLA ENTERICA* SUBSP. *ENTERICA* SEROVAR *INFANTIS* STRAINS ISOLATED FROM HUMANS AND BROILERS IN HUNGARY

¹Agricultural Biotechnology Institute, National Agricultural Research and Innovation Centre, Gödöllő; ²Institute for Veterinary Medical Research, Centre for Agricultural Research, Hungarian Academy of Sciences, Budapest, Hungary

CMP-8

ANNAMÁRIA KINCSES^{1,2}, GRÉTA SÁTORI³, KÚSZ KÚSZ³, TÍMEA MOSOLYGÓ^{1,2}, KATALIN BURIÁN^{1,2}, JUDIT HOHMANN^{2,3}, DÓRA RÉDEI^{2,3}, ◆ GABRIELLA SPENGLER^{1,2}

ANTICANCER ACTIVITY OF DITERPENES ISOLATED FROM *EUPHORBIA TAURINENSIS*

¹Department of Medical Microbiology and Immunobiology; ²Interdisciplinary Centre of Natural Products; ³Department of Pharmacognosy, University of Szeged, Szeged, Hungary

CMP-9

◆ ÉVA ÁY¹, MÁRIA MEZEI¹, ÁGNES POCSKAY¹, ANITA KOROKNAI¹, ZOLTÁN GYÓRI¹, MÁRTA MARSCHALKÓ², BÉLA TÓTH², SAROLTA KÁRPÁTI², BOTOND LAKATOS³, JÁNOS SZLÁVIK³, MÁRIA TAKÁCS¹, JÁNOS MINÁROVITS⁴

TRANSMITTED DRUG RESISTANCE IN NEWLY DIAGNOSED, TREATMENT-NAIVE, HIV TYPE 1-INFECTED PATIENTS IN HUNGARY

¹National Public Health Institute; ²Semmelweis University; ³Center for HIV, St István and St László Hospital, Budapest; ⁴University of Szeged, Szeged, Hungary

CMP-10

◆ JUDIT DEÁK¹, GYÖRGY BÁRTFAI²

COMPARATIVE HIGH RISK HPV TYPES ANTIBODY DETERMINATIONS AMONG GYNAECOLOGICAL PATIENTS AND HEALTH CARE WORKERS

¹Institute of Clinical Microbiology; ²Department of Obstetrics and Gynaecology, University of Szeged, Szeged, Hungary

19.00- CEFORM Reception – Hunguest Hotel Helikon Restaurant

Friday, October 20

Room No. 1

8.30-10.30 Emil von Behring Molecular Diagnostics and Pathogenesis Semiplenary Session

Behring, Emil von (1854-1917) German physiologist, Nobel laureate (1901) for his discovery of a diphtheria antitoxin, and his studies on tetanus. Widely known as the "savior of children", as diphtheria used to be a major cause of child death. He studied „military medicine“ in Berlin, and was mainly a military doctor. Later he became Professor of Hygiene within the Faculty of Medicine at the University of Marburg. He held this position life-long. He was elected a Foreign Honorary Member of the American Academy of Arts and Sciences in 1902. In 1905, he announced that he had discovered "a substance proceeding from the virus of tuberculosis." His name survived with the Dade Behring organization, at the time, the world's largest company dedicated solely to clinical diagnostics.

Chairpersons: Elisabeth Nagy, and Levente Emödy

8.30-9.00

MSS-1

◆KORNÉLIA KURUCZ¹, MÓNIKA MADAI¹, DOMINIKA BALI¹, DÁVID HEDERIC¹, GYŐZŐ HORVÁTH², GÁBOR KEMENESI¹, FERENC JAKAB¹

PARALLEL SURVEY OF TWO WIDESPREAD RENAL SYNDROME-CAUSING ZOONOSES: *LEPTOSPIRA* SPP. AND HANTAVIRUSES IN URBAN ENVIRONMENT, HUNGARY

¹Szentágotthai Research Centre; ²Faculty of Sciences, University of Pécs, Pécs, Hungary

9.00-9.30

MSS-2

TÍMEA RAFFAI¹, ÁRPÁD PÁRDU CZ², VALÉRIA ENDRÉ SZ¹, KATALIN BURIÁN¹, ◆DEZSŐ VIRÓK¹

IMPACT OF OFF-THE-SHELF VAGINAL GELS ON THE REPLICATION OF *CHLAMYDIA TRACHOMATIS*

¹Institute for Medical Microbiology and Immunology, Faculty of Medicine, University of Szeged, Szeged; ²Obstetrics and Gynecology, Pándy Kálmán County Hospital, Gyula, Hungary

9.30-10.00

MSS-3

VALENTINA MARECIC¹, OLGA SHEVCHUK², MATEJA OZANIC¹, MIRNA MIHELIC¹, MIHAEL STEINERT², BEGONJA ANTONIJA JURAK³, YOUSEF ABU KWAIK⁴, ◆MARINA SANTIC¹

ISOLATION OF *FRANCISELLA NOVICIDA*-CONTAINING PHAGOSOME FROM INFECTED HUMAN MONOCYTE DERIVED MACROPHAGES

¹Department of Microbiology, Faculty of Medicine, Rijeka, Croatia; ²Institute for Microbiology, TU Braunschweig and Helmholtz Center for Infection Research, Braunschweig, Germany; ³Department of Biotechnology, University of Rijeka, Rijeka, Croatia; ⁴Department of Microbiology and Immunology and Center for Predictive Medicine, Louisville, US

10.00-10.30

MSS-4

GYÖRGYI VÁRADI¹, LILIÁNA TÓTH², KORNÉL NEDECZKY², ÁKOS VENDRINSZKY¹, ATTILA BORICS³, ZOLTÁN KELE¹, GÁBOR K. TÓTH¹, CSABA VÁGVÖLGYI², FLORENTINE MARX⁴, ◆LÁSZLÓ GALGÓ CZY²

SYNTHESIS AND FUNCTIONAL MAPPING OF THE *NEOSARTORYA FISCHERI* ANTI-YEAST PROTEIN (NFAP2)

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

10.30- 11.00 Coffee Break

11.00-13.00 Max Theiler Virology Session

Theiler, Max (1899-1972), a South African-American virologist and physician. Nobel laureate (1951) for developing a vaccine against yellow fever. Theiler was educated in South Africa through completion of his degree in medical school. Graduating in 1918, he went to London for postgraduate work at King's College London, and at the London School of Hygiene and Tropical Medicine, earning in 1922 a diploma in tropical medicine and hygiene. That year, he moved to the United States to do research at the Harvard University School of Tropical Medicine. He lived and worked in that nation the rest of his life. In 1930, he moved to the Rockefeller Institute in New York, becoming director of the Virus Laboratory. He was professor of epidemiology and public health at Yale University from 1964 to 1967. He spent several years investigating amoebic dysentery and trying to develop a vaccine for rat-bite fever. In the course of this research, Theiler contracted yellow fever, but survived and developed immunity.

Chairpersons: Mária Takács, and Eszter Csoma

11.00-11.15

VOP-1

◆ ÁKOS BOROS¹, MIHÁLY ALBERT², PÉTER PANKOVICS¹, HUNOR BÍRÓ³, PATRICIA A. PESAVENTO⁴, GIA PHAN TUNG⁵, ERIC DELWART^{5,6}, GÁBOR REUTER⁷

NEUROINVASIVE PORCINE ASTROVIRUSES: NEWLY RECOGNIZED ROLES OF PREVIOUSLY KNOWN ENTERIC RNA VIRUSES

¹Laboratory of Virology, Public Health Department, Government Office of Baranya County, Pécs, Hungary; ²Ceva Phylaxia Ltd, Budapest, Hungary; ³SHP Ltd, Kaposvár, Hungary; ⁴School of Veterinary Medicine, University of California Davis, Davis, CA, US; ⁵Blood Systems Research Institute, San Francisco, CA, US; ⁶University of California, San Francisco, CA, US; ⁷Department of Medical Microbiology and Immunology, Medical School, University of Pécs, Pécs, Hungary

11.15-11.30

VOP-2

◆ ESZTER CSOMA¹, TAMÁS GÁLL², MELINDA KATONA¹, LÁSZLÓ ASZTALOS³, LÁSZLÓ BIDIGA⁴, LAJOS GERGELY⁵, ATTILA SZÜCS⁶, LAJOS GERGELY¹

PREVALENCE STUDY OF HUMAN PLYOMAVIRUS 9

¹Department of Medical Microbiology; ²Department of Pediatrics; ³Institute of Surgery; ⁴Department of Pathology; ⁵Institute of Internal Medicine; ⁶Department of Otolaryngology and Head and Neck Surgery, Faculty of Medicine, University of Debrecen, Debrecen, Hungary

11.30-11.45

VOP-3

LÓRÁNT LAKATOS

A VIRAL SUPPRESSOR OF RNA SILENCING INHIBITS ARGONAUTE 1 FUNCTION BY PRECLUDING TARGET RNA BINDING TO PRE-ASSEMBLED RISC

University of Szeged, Szeged, Hungary

11.45-12.00

VOP-4

◆ NÓRA MAGYAR, BERNADETT PÁLYI, ANNA NAGY, IVELINA DAMJANOVA, MÁRIA TAKÁCS, ZOLTÁN KIS

FIRST SEROLOGICAL EVIDENCE OF CRIMEAN–CONGO HAEMORRHAGIC FEVER VIRUS IN HUNGARIAN POPULATION

Directorate of Clinical and Public Health Microbiology, National Public Health Institute, Budapest, Hungary

12.00-12.15

VOP-5

◆ ANNA NAGY, ORSOLYA NAGY, KATALIN TARCSAI, ÁGNES FARKAS, MÁRIA TAKÁCS

FIRST DETECTION OF TICK-BORNE ENCEPHALITIS VIRUS IN CLINICAL SPECIMENS OF ACUTELY ILL PATIENTS IN HUNGARY

Division of Virology, National Public Health Institute, Budapest, Hungary

12.15-12.30

VOP-6

BALÁZS STERCZ¹, KAZUNORI YOSHIMURA², ♦KÁROLY NAGY¹

MODULATION OF CELL CYCLE BY HESPERETIN ON HIV-1 INFECTED CELLS

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

12.30-12.45

VOP-7

♦ERZSÉBET IRINGÓ ZAHARIA KÉZDI¹, ANDREA FODOR², ZSUZSANNA SUCIU³, ELŐD NAGY⁴, CRISTINA GÎRBOVAN⁵, ÁKOS VINCE ANDREJKOVITS¹

CARDIOVASCULAR RISK AND HIV INFECTION

¹1st Infectious Disease Clinic, Mures County, Targu Mures; ²Department of Laboratory Medicine, University of Medicine and Pharmacy Tîrgu-Mureş; ³Center of Advanced Research in Multimodality Cardiac Imaging, Cardio Med Medical Center, Tîrgu Mureş; ⁴Department of Pharmaceutical Biochemistry; ⁵Department of Infectious Diseases, University of Medicine and Pharmacy Tîrgu-Mureş, Tîrgu Mureş, Romania

12.45-13.00

VOP-8

♦JÚLIA SARKADI¹, DÁVID KUTI¹, MÁTÉ JANKOVICS¹, ÉVA PALLINGER², KINGA FODOR¹, ZOLTÁN KIS¹, ÉVA GÖNCZÖL¹, ILDIKÓ VISONTAI¹, ISTVÁN JANKOVICS¹

PROTECTION AFTER VACCINATION WITH ALUMINUM-ADJUVANTED INACTIVATED WHOLE VIRION INFLUENZA VACCINE IS INDEPENDENT OF VIRUS NEUTRALIZATION ACTIVITY AGAINST AN INFLUENZA VIRUS CHALLENGE

¹National Center for Epidemiology; ²Department of Genetics, Cell- and Immunobiology, Semmelweis University, Budapest, Hungary

**13.00-13.30 Closing Ceremony and Farewell Drink
Awards ceremony of the poster competition**

Friday, October 20

Room No. 2

8.30-10.30 Nándor Gimesi Environmental Microbiology and Evolution Semiplenary Session

Gimesi, Nándor István (1892-1953) Cistercian monk, botanist, hydrobiologist, microbiologist. His studies on aquatic microorganisms made him internationally known. He is also well known as a renewer of photographing, and filming microbes. In 1918 he obtained a teachers diploma at the Budapest University, and in 1920 PhD degree. He worked as teacher in the secondary schools of the Cistercian Order. With the help of the Rockefeller Fund, during 1924 and 1926 he made a study tour in the Luzern, Zürich, Plön, Helgoland, Bergen „botanic stations”. From 1943, he became the professor of the Plant Physiology Department at the Budapest University. He described *Planktomyces békefi*, this deep-branching budding bacterium, with distinctive morphology.

Chairpersons: Zsuzsanna Hamari, and Andrea K. Borsodi

8.30-9.00

ESS-1

◆ KRISZTINA KRIZSÁN¹, ÉVA ALMÁSI¹, ARUN PRASANNA¹, BRIGITTA KISS¹, GYÖRGY SIPOS², BALÁZS BÁLINT³, ISTVÁN NAGY³, LÁSZLÓ G. NAGY¹

THE DEVELOPMENT OF COMPLEX MULTICELLULAR STRUCTURES IN FUNGI

¹Biological Research Center, Hungarian Academy of Sciences, Szeged; ²Institute of Silviculture and Forest Protection, University of West-Hungary, Sopron; ³Seqomics Ltd, Mórahalom, Hungary

9.00-9.30

ESS-2

ZSUZSANNA HAMARI

ROLE OF CHROMATIN-ASSOCIATED H1 HISTONE AND HMGB PROTEINS IN ASPERGILLUS NIDULANS

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

9.30-10.00

ESS-3

◆ ORSOLYA STRANG¹, ZOLTÁN BAGI¹, GÁBOR RÁKHELY^{1,2}, KORNÉL L. KOVÁCS^{1,2,3}

BIOAUGMENTATION OF THE ANAEROBIC DEGRADATION OF CORN STOVER AND SUNFLOWER STALK WITH CELLULOLYTIC MICROORGANISMS

¹Department of Biotechnology, University of Szeged; ²Institute of Biophysics, Biological Research Center, Hungarian Academy of Sciences; ³Department of Oral Biology and Experimental Dental Research, University of Szeged, Szeged, Hungary

10.00-10.30

ESS-4

◆ JÚLIA MARGIT ASZALÓS¹, BALÁZS NAGY², ATTILA SZABÓ¹, LAURA JURECSKA¹, ANDREA K. BORSODI¹

MICROBIAL MAT FORMING EXTREMOPHILIC BACTERIA IN A HIGH-ALTITUDE SALINE LAKE (LAGUNA VERDE, CHILE)

¹Department of Microbiology; ²Department of Physical Geography, Faculty of Science, ELTE Eötvös Loránd University, Budapest, Hungary

10.30-11.00 Coffee Break

11.00 – 12.30 Alfred Hershey Bacteriology Session

Hershey, Alfred Day (1908-1997), American Nobel laureate bacteriologist, geneticist. He received his B.S. in chemistry at Michigan State University in 1930 and his Ph.D. in bacteriology in 1934, taking a position thereafter at the Department of Bacteriology at Washington University in St. Louis. He performed experiments with bacteriophages with Salvador Luria, and Max Delbrück in 1940, and observed that when two different strains of bacteriophage have infected the same bacteria, the two viruses may exchange genetic information. In 1950, he moved with his assistant Martha Chase to the Carnegie Institution of Washington's Department of Genetics, where he and Chase performed the famous Hershey–Chase experiment in 1952. This experiment provided additional evidence that DNA, not protein, was the genetic material of life. He became director of the Carnegie Institution in 1962.

Chairpersons: Béla Nagy, and István Tóth

11.00-11.15

BOP-6

◆ ANDRÁS PENYIGE, MELINDA SZILÁGYI-BÓNIZS

IDENTIFICATION OF POSSIBLE DOWNSTREAM EFFECTOR PROTEINS OF THE CA²⁺-BINDING PROTEIN CABB IN *STREPTOMYCES COELICOLOR*

Department of Human Genetics, Faculty of Medicine, University of Debrecen, Debrecen, Hungary

11.15-11.30

BOP-7

◆ JÓZSEF SÓKI¹, KATALIN ÖRDÖG¹, INGRID WYBO², DANIEL TIERNEY³, SAMO JEVERICA⁴, NURVER ULGER⁵, CATALINA-SUZANA STINGU⁶, EDIT HAJDÚ⁷, JOHN PERRY³, EDIT URBÁN¹, ELISABETH NAGY¹

ASSESSING THE ANTIBIOTIC RESISTANCE LEVELS OF HUMAN INTESTINAL *BACTEROIDES* AND *PARABACTEROIDES* STRAINS ISOLATED IN EUROPEAN COUNTRIES

¹Institute of Clinical Microbiology, University of Szeged, Szeged, Hungary; ²Microbiological Laboratory, University Hospital Bruxelles, Bruxelles, Belgium; ³Microbiology Department, Freeman Hospital, Newcastle-upon-Tyne, UK; ⁴Institute for Microbiology and Immunology, University of Ljubljana, Ljubljana, Slovenia; ⁵Department of Microbiology, Marmara University, Istanbul, Turkey; ⁶Institute for Medical Microbiology and Infection Epidemiology, University Clinics AÖR, Leipzig, Germany; ⁷Department of Medicine, University of Szeged, Szeged, Hungary

11.30-11.45

BOP-8

◆ AMA SZMOLKA¹, JUDIT PÁSZTI², ROBERT HORTON³, RENATA KARPÍŠKOVÁ⁴, ESTELLA PRUKNER-RADOVIC⁵, JASNA MIĆUNOVIĆ⁶, KRASEN PENCHEV⁷, BÉLA NAGY¹

MOLECULAR EPIDEMIOLOGY OF *SALMONELLA INFANTIS* IN CENTRAL EUROPE

¹Enteric bacteriology and food-borne zoonoses, Institute for Veterinary Medical Research, Centre for Agricultural Research, Hungarian Academy of Sciences, Budapest; ²Department of Phage-typing and Molecular Epidemiology, National Center for Epidemiology, Budapest, Hungary; ³Animal and Plant Health Agency (APHA), Field Epidemiology & Surveillance, Department of Bacteriology, Addlestone, UK; ⁴Department of Bacteriology, Veterinary Research Institute, Brno, Czech Republic; ⁵Faculty of Veterinary Medicine, University of Zagreb, Zagreb, Croatia; ⁶Institute for Microbiology and Parasitology, UL Veterinary Faculty, Ljubljana, Slovenia; ⁷Member of PVSGEU, Bulgaria

11.45-12.00

BOP-9

◆ DOMONKOS SVÁB¹, LINDA FALGENHAUER², MANFRED ROHDE³, TRINAD CHAKRABORTY², ISTVÁN TÓTH¹

CHARACTERISATION OF NEW FOOD-BORNE T5-LIKE LYTIC BACTERIOPHAGES INFECTING PATHOGENIC *ESCHERICHIA COLI*, *SHIGELLA* AND *SALMONELLA* STRAINS

¹Enteric bacteriology, Institute for Veterinary Medical Research, Centre for Agricultural Research, Hungarian Academy of Sciences, Budapest, Hungary; ²Institute of Medical Microbiology, Justus Liebig University Giessen, Giessen; ³Central Facility for Microscopy, Helmholtz Centre for Infection Research, Braunschweig, Germany

12.00-12.15

BOP 10

◆ SARSHAD KODERI VALAPPIL¹, ZOLTÁN DEIM¹, GABRIELLA TERHES², EDIT URBÁN², GYÖRGY SCHNEIDER³, TAMÁS KOVÁCS⁴, GÁBOR RÁKHELY^{1,5}

CHARACTERIZATION OF NOVEL LYTIC BACTERIOPHAGES AGAINST *PSEUDOMONAS AERUGINOSA* CLINICAL ISOLATES

¹Department of Biotechnology; ²Institute of Clinical Microbiology and Diagnostics, University of Szeged, Szeged; ³Department of Medical Microbiology and Immunology, University of Pécs; ⁴Department of Biotechnology, Nanophagetherapy Center, Enviroinvest Corp. Pécs; ⁵Institute of Biophysics, Biological Research Centre, Hungarian Academy of Sciences, Szeged, Hungary

12.15-12.30

BOP-11

GÁBOR RÁKHELY^{1,2}, ILDIKÓ VARGA³, JÁNOS MOLNÁR³, ANNAMÁRIA GAZDAG³, DOMINIKÁ SZÜCS³, ZSOLT DOFFKAY¹, SRASHAD KODERI VALAPPIL¹, SZILVIA PAPP³, RÉKA PINTÉR³, CASIANA M. VERA CRUZ⁴, TÍMEA VIZI⁵, GYÖRGY SCHNEIDER⁶ ◆ TAMÁS KOVÁCS³

COMPARATIVE GENOMICS OF XOP2-LIKE *XANTHOMONAS ORYZAE* PV. *ORYZAE* BACTERIOPHAGES

¹Department of Biotechnology, University of Szeged; ²Institute of Biophysics, Biological Research Center, Szeged; ³Department of Biotechnology, Nanophagetherapy Center, Enviroinvest Corporation, Pécs, Hungary; ⁴International Rice Research Institute, Los Banos, Philippines; ⁵Roche Hungary Ltd., Budaörs; ⁶Institute of Medical Microbiology and Immunology, University of Pécs, Pécs, Hungary

Friday, October 20

Room Gulács

11.00-12.30 **Arnold L. Demain Industrial Microbiology Session**

Demain, Arnold L. (born 1927), is an American microbiologist. Demain was born in Brooklyn, New York. His grandparents were all immigrants from the Austrian-Hungarian Empire. He started university studies at Michigan State University, but discontinued for learning pickling, and helping the family's pickling business. In 1947, he returned to Michigan State, earning B.S. and M.S. degrees in bacteriology. From MS, Demain went to the University of California's Department of Food Science. He received his Ph.D. in 1954, and then moved to Pennsylvania, where he worked as a research microbiologist for Merck Sharp & Dohme, studying the synthesis of penicillin. In 1968, Demain was invited to be the head of the Department of Nutrition and Food Science at the Massachusetts Institute of Technology, to become a full professor. Later he was involved in the first biotechnology company, the Cetus Corporation as advisor. In 2001, Demain became one of a small group of Research Fellows at the Charles Dana Research Institute for Scientists Emeriti at Drew University in New Jersey. He is one of the world's leading industrial microbiologists, biotechnologist. He has good personal and scientific contact to several Hungarian researchers. He is a Honorary Member of the Hungarian Society for Microbiology.

Chairpersons: Áron Németh, and Károly Márialigeti

11.00-11.15

IMO-1

◆ TAMÁS BÓJTI¹, KORNÉL L. KOVÁCS^{1,2,3}, BALÁZS KAKUK¹, ROLAND WIRTH¹, GÁBOR RÁKHELY^{1,2}, ZOLTÁN BAGI¹

POULTRY MANURE FOR EFFICIENT BIOGAS PRODUCTION AS MONO-, AND CO-SUBSTRATE FOR BIOGAS AND BIOHYDROGEN PRODUCTION

¹Department of Biotechnology, University of Szeged; ²Institute of Biophysics, Biological Research Center, Hungarian Academy of Sciences; ³Department of Oral Biology and Experimental Dental Research, University of Szeged, Szeged, Hungary

11.15-11.30

IMO-2

◆ BALÁZS KAKUK¹, MÁRK SZUHAI¹, ZOLTÁN BAGI¹, GÁBOR RÁKHELY^{1,2}, KORNÉL KOVÁCS^{1,3}

BIOLOGICAL PRETREATMENT AND ANAEROBIC DIGESTION OF BIOMASS FROM SHORT ROTATION CROPPING OF TETRAPLOID WILLOW PLANTS

¹Department of Biotechnology, University of Szeged; ²Institute of Biophysics, Biological Research Center, Hungarian Academy of Sciences; ³Department of Oral Biology and Experimental Dental Research, University of Szeged, Szeged, Hungary

11.30-11.45

IMO-3

ÁRON NÉMETH

APPLICATION OF IMPEDIMETRIC MEASUREMENTS IN LACTIC ACID, PROPIONIC ACID AND SUCCINIC ACID FERMENTATION

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

11.45-12.00

IMO-4

◆ MÁRK SZUHAI¹, GÁBOR RÁKHELY^{1,2}, ZOLTÁN BAGI¹, KORNÉL L. KOVÁCS^{1,2,3}

A NOVEL BIOTECHNOLOGICAL FUNCTION OF FERMENTATION RESIDUE: BIOCH₄ PRODUCTION BY MICROBIAL CONVERSION OF H₂ AND CO₂

¹Department of Biotechnology, University of Szeged; ²Institute of Biophysics, Biological Research Center, Hungarian Academy of Sciences; ³Department of Oral Biology and Experimental Dental Research, University of Szeged, Szeged, Hungary

12.00-12.15

IMO-5

◆ROLAND WIRTH¹, TAMÁS BÖJTÍ¹, GERGELY LAKATOS², GERGELY MARÓTI², ZOLTÁN BAGI¹, GÁBOR RÁKHELYI^{1,3}, KORNÉL L. KOVÁCS^{1,3,4}

THE CORE MICROBIAL POPULATIONS AND CO-OCCURRENCE PATTERNS OF MICROALGA-FED BIOGAS DIGESTERS

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12.15-12.30

IMO-6

◆ANNA MARÁZ¹, ZOLTÁN FÜSTÖS², ÁGNES BELÁK¹

INTERNALISATION OF ENDOPHYTIC, ENTERIC AND HUMAN PATHOGENIC BACTERIA IN SWEET PEPPER (*CAPSICUM ANNUUM* L. VAR. *GROSSUM*)

¹Department of Microbiology and Biotechnology, Faculty of Food Science, Szent István University; ²Department of Nutritional Physiology, Food Science Research Institute, NARIC, Budapest, Hungary

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