

**17th International Congress of the
Hungarian Society for Microbiology**

PROGRAMME

Eötvös Loránd University
Budapest, Hungary
July 8-10, 2015

PROGRAMME
of the

17th International Congress
of the

Hungarian Society for Microbiology

Organized
by the

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

Eötvös Conference in Science

Eötvös Loránd University
Budapest, Hungary
July 8-10, 2015

Programme at a glance

Tuesday, July 7	16.00-19.00	Registration
Wednesday, July 8	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	14.30-18.00	Frederick William Twort Plenary Session – Extrachromosomal Genetic Elements in Microorganisms
	16.00-16.30	Coffee break
Thursday, July 9	8.00-13.00	Registration
Auditorium No. 1	8.30-10.30	Ignác Fülöp Semmelweis Semi-plenary Session
	10.30-11.00	Coffee break
	11.00-12.30	Oswald Avery Virology Session
	12.30-14.30	Lunch break
	14.30-15.00	Coffee break
	15.00-16.30	Károly Rauss Bacteriology Session
Auditorium No. 2	8.30-10.30	Friedrich Löffler Semi-plenary Session
	10.30-11.00	Coffee break
	11.00-12.20	Carl Friedrich Wilhelm Wehmer Industrial Microbiology Session
	12.20-14.30	Lunch break
	14.30-15.00	Coffee break
	15.00-16.45	János Szolnoki Environmental Microbiology Session
Classroom No. 1	15.00-16.20	Jacques Lucien Monod Industrial Microbiology Session
Classroom No. 2	15.00-16.45	Boris Ephrussi Mycology Session
Poster Corridor	11.00-13.00	Bacteriology Poster Session
	11.00-13.00	Mycology Poster Session

- 11.00-13.00 Agricultural Microbiology Poster Session
- 13.00-14.30 Environmental Microbiology Poster Session
- 13.00-14.30 Food Microbiology Poster Session
- 13.30-14.30 Immunology and Parasitology Poster Session
- 13.30-14.30 Virology Poster Session

- 19.00- Congress Banquet – Hemingway Restaurant

Friday, July 10

- 8.00-10.00 Registration

 - Auditorium No. 1
 - 8.30-10.30 Paul Ehrlich Plenary Session
 - 10.30-11.00 Coffee break
 - 11.00-12.15 Christian Gottfried Ehrenberg Environmental Microbiology Session
 - 12.15-14.00 Lunch break
 - 14.00- Closing Ceremony
Best Poster Award
 - Lunch and Exhibition Corridor
 - 14.30 Farewell drink
 - Auditorium No. 2
 - 11.00-12.30 Franz Meyen Mycology Session
 - Classroom No. 1
 - 11.00-12.30 György Ivánovics Bacteriology Session
 - Classroom No. 2
 - 11.00-12.30 Thomas Huckle Weller Immunology and Parasitology Session
 - 12.30-14.00 Lunch break
 - Biological and Geological Collection
 - 15.00 Visit to the Biological and Geological Collection of the Faculty of Science, Eötvös Loránd University
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Detailed Programme

Wednesday, July 8

Conference Hall

10.30 Opening Ceremony

Welcome Addresses of

Károly Márialigeti
President of the Hungarian Society for Microbiology

Péter Surján
Dean, Faculty of Science, Eötvös Loránd University

11.00-12.30 Manninger Memorial Session

Chairpersons: Judit Deák, Károly Márialigeti, János Minárovits, Miklós Rusvai and Orsolya Dobay

Manninger Lecture

11.00-11.30

ISTVÁN PÓCSI

STRESS RESPONSES IN THE ASPERGILLI – OMICS-BASED APPROACHES

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

Inaugural Lectures by Honorary Members of the Hungarian Society for Microbiology

11.30-12.00

MIKLÓS MÜLLER

THE HISTORY OF AN ENIGMATIC CELL ORGANELLE, THE HYDROGENOSOME

Muller Laboratory, The Rockefeller University, New York, USA

12.00-12.30

ELISABETH PUCHHAMMER-STÖCKL

CHALLENGES IN TRANSPLANTATION VIROLOGY

Department of Virology, Medical University of Vienna, Vienna, Austria

12.30-14.30 Lunch break

Wednesday, July 8

Auditorium No.1

14.30-18.00 Frederick William Twort Plenary Session – Extrachromosomal Elements in Microbes

Twort, Frederick William (1877 – 1950), English bacteriologist. He studied medicine, and was a professor of bacteriology at the University of London. He investigated the reliability of sugar utilization tests, and described the loss, and acquirement of “fermentation power”. He developed a medium to culture leprosy bacillus. He tried to grow viruses in artificial media, because that time smallpox vaccines had to be made in the skin of calves and was almost always contaminated with the bacterial genus *Staphylococcus*. These studies led to the discovery of an agent that could pass through porcelain filters and required bacteria for growth.

Twort published these results in *The Lancet* in 1915 and called the contagion a bacteriolytic agent. Two years later this bacteriolytic agent was called by Felix D'Hérelle bacteriophage. In World War I. he worked in the diagnostic routine and could no longer pursue his research. Following the war, Twort wanted to use these bacteriolytic agents to cure bacterial diseases in humans and animals. This proved to be unsuccessful.

Chairpersons: Hans Helmut Niller and Erzsébet Nagy

14.30-15.00

TPP-1

◆ HANS HELMUT NILLER¹, FERENC BÁNÁTI², KÁLMÁN SZENTHE², DÁNIEL SALAMON³ AND JÁNOS MINÁROVITS⁴

ESTABLISHING EPSTEIN-BARR VIRUS LATENCY IN MEMORY B CELLS - IMPLICATIONS FOR TUMORIGENESIS

¹Medical Microbiology and Hygiene, University of Regensburg, Regensburg, Germany; ²2RT-Europe Nonprofit Research Ltd., Mosonmagyaróvár, Hungary; ³Tumor and Cell Biology, Department of Microbiology, Karolinska Institutet, Stockholm, Sweden;

⁴Department of Oral Biology and Experimental Dental Research, Faculty of Dentistry, University of Szeged, Szeged, Hungary

15.00-15.30

TPP-2

◆ FERENC OLASZ¹, PÉTER PÁL PAPP¹, MÓNKA SZABÓ¹, TIBOR FARKAS¹, GÁBOR MURÁNYI¹, ANNA HEGYI¹, AMA SZMOLKA², ERIK SZAKÁLLAS¹, BÉLA NAGY² AND JÁNOS KISS¹

MOBILE GENOMIC ISLANDS: THE KEY ROLE OF EXTRACHROMOSOMAL AND INTEGRATIVE MOBILE ELEMENTS IN HORIZONTAL GENE TRANSFER

¹Department of Genetics, Agricultural Biotechnology Center, NARIC, Gödöllő; ²Institute for Veterinary Medical Research, Centre for Agricultural Research, Hungarian Academy of Sciences, Budapest, Hungary

15.30-16.00

TPP-3

MAITE MUNIESA

HORIZONTAL GENE TRANSFER BY STX PHAGES AND THE EMERGENCE OF PATHOGENIC *ESCHERICHIA COLI*: THE WHOLE PICTURE

Department of Microbiology, Faculty of Biology, University of Barcelona, Barcelona, Spain

16.00-16.30 Coffee break

16.30-17.00

TPP-4

MAJA RUPNIK

GENOME PLASTICITY AND VIRULENCE IN *CLOSTRIDIUM DIFFICILE*

National Laboratory for Health, Environment and Food, NLZOH, Centre for Medical Microbiology, Maribor, Slovenia

17.00-17.30

TPP-5

JUDIT E. SZABÓ^{1,2}, KINGA NYÍRI^{1,2}, RITA HÍRMONDÓ², VERONIKA PAPP-KÁDÁR^{1,2}, ORSOLYA DOBAY³, DÓRA SZABÓ³,
JUDIT TÓTH² AND ♦BEÁTA G. VÉRTESSY^{1,2}

A NOVEL MECHANISM PROVIDES GENOME QUALITY CONTROL FOR PATHOGENICITY ISLAND TRANSFER IN *STAPHYLOCOCCUS*

¹Department of Applied Biotechnology, Faculty of Chemical Technology and Biotechnology, Budapest University of Technology and Economics; ²Institute of Enzymology, Research Centre for Natural Sciences, Hungarian Academy of Sciences; ³Institute of Medical Microbiology, Faculty of Medicine, Semmelweis University, Budapest, Hungary

17.30-18.00

TPP-6

MANFRED SCHMITT

KILLER TOXINS AND MYCOVIRUSES IN YEAST: WHAT HAVE WE LEARNED FROM 50 YEARS OF RESEARCH ON KILLER YEASTS?

Department of Biosciences, Molecular and Cell Biology, Saarland University, Saarbrücken, Germany

Thursday, July 9

Auditorium No.1

8.30-10.30 Ignác Fülöp Semmelweis Semi-plenary Session

Semmelweis, Ignác Fülöp (1818 – 1865), Hungarian physician, early pioneer of antiseptic procedures, the "savior of mothers". Semmelweis discovered that the incidence of puerperal fever (also known as "childbed fever") could be drastically cut by the use of hand disinfection in obstetrical clinics. Puerperal fever was common in mid-19th-century hospitals and often fatal, with mortality at 10%–35%. Semmelweis proposed the practice of washing hands with chlorinated lime solutions in 1847 while working in Vienna General Hospital's First Obstetrical Clinic. He published a book of his findings in *Etiology, Concept and Prophylaxis of Childbed Fever*. Despite various publications of results where hand washing reduced mortality to below 1%, Semmelweis's observations conflicted with the established scientific and medical opinions of the time and his ideas were rejected by the medical community. Some doctors were offended at the suggestion that they should wash their hands and Semmelweis could offer no acceptable scientific explanation for his findings. Semmelweis's practice earned widespread acceptance only years after his death, when Louis Pasteur confirmed the germ theory.

Chairpersons: Katalin Burián and József Sóki

8.30-9.00

SPP-1

JÓZSEF SÓKI

A TWO-DECADE EXPERIENCE IN EXAMINATION HOW ANTIBIOTIC RESISTANCE GENES ARE INVOLVED IN ANTIBIOTIC RESISTANCE DEVELOPMENT OF *BACTEROIDES* SPP.

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

9.00-9.30

SPP-2

◆ KATALIN BURIÁN¹, TÍMEA MOSOLYGÓ¹, ÉVA BOROS², ANITA BOGDANOV¹, MARIANNA NAGYMIHÁLY², BALÁZS HORVÁTH², VALÉRIA ENDRÉSZ¹, ILDIKÓ LANTOS¹, ÉVA KONDOROSI², DEZSŐ VIRÓK¹ AND ISTVÁN NAGY²

IMPACT OF *CHLAMYDIA TRACHOMATIS* INFECTION AND INTERFERON-GAMMA TREATMENT ON THE HUMAN POLYMORPHONUCLEAR LEUKOCYTE TRANSCRIPTOME

¹Department of Medical Microbiology and Immunobiology, Faculty of Medicine, University of Szeged; ²Institute of Biochemistry, Biological Research Centre, Hungarian Academy of Sciences, Szeged, Hungary

9.30-10.00

SPP-3

◆ LÁSZLÓ KREDICS¹, MÓNKA HOMA¹, NIKOLETT BARANYI¹, COIMBATORE SUBRAMANIAN SHOBANA², YENDREMBAN RANDHIR BABU SINGH³, RAJARAMAN REVATHI⁴, ANITA RAGHAVAN⁴, SÁNDOR KOCSUBÉ¹, LÁSZLÓ GALGÓCZY¹, BALÁZS LEITGEB⁵, VENKATAPATHY NARENDHAN⁴, TAMÁS PAPP¹, JÁNOS VARGA¹, CSABA VÁGVÖLGYI¹ AND PALANISAMY MANIKANDAN⁶

WIDENING SPECTRUM OF FILAMENTOUS FUNGI CAUSING MYCOTIC KERATITIS

¹Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary; ²Department of Microbiology, PSG College of Arts and Science; ³Department of Microbiology, Dr. G.R. Damodaran College of Science; ⁴Department of Cornea and Refractive Services, Aravind Eye Hospital and Post-Graduate Institute of Ophthalmology, Coimbatore, India; ⁵Institute of Biophysics, Biological Research Centre, Hungarian Academy of Sciences, Szeged, Hungary; ⁶Department of Microbiology, Aravind Eye Hospital and Postgraduate Institute of Ophthalmology, Coimbatore, India

SPP-4

10.00-10.30

◆ BERNADETT PÁLYI¹, THOMAS STRECKER², HEINZ ELLERBROK³, SYLVIE JONCKHEERE⁴, HILDE DE CLERCK⁴ AND BORE JOSEPH AKOI⁵

CAPILLARY BLOOD OR VENOUS BLOOD? AN ALTERNATIVE SPECIMEN COLLECTION FOR THE RAPID DIAGNOSIS OF EBOLA VIRUS INFECTION DURING AN OUTBREAK EMERGENCY

¹Hungarian National Biosafety Laboratory, National Center for Epidemiology, Budapest, Hungary; ²Institute of Virology, Philipps University Marburg, Marburg, Germany; ³ZBS-1, Robert Koch Institute, Berlin, Germany; ⁴Médecins sans Frontières, Brussel, Belgium; ⁵Institut National de Santé Publique, Conakry, Guinea

10.30-11.00 Coffee break

11.00-12.30 Oswald Avery Virology Session

Avery, Oswald Theodore Jr. (1877 – 1955), a Canadian-born American physician and medical researcher. The major part of his career was spent at the Rockefeller University Hospital in New York City. Avery is best known for the experiment (published in 1944 with his co-workers Colin MacLeod and Maclyn McCarty) 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. S-strain bacteria first had the large cellular structures removed. Then they were treated with protease enzymes, which removed the proteins from the cells before the remainder was placed with R strain bacteria. The R strain bacteria transformed, meaning that proteins did not carry the genes causing the disease. Then the remnants of the R strain bacteria were treated with a deoxyribonuclease enzyme which removed the DNA. After this treatment, the R strain bacteria no longer transformed. This indicated that DNA was the carrier of genes in cells.

Chairpersons: Károly Nagy and József Ongrádi

11.00-11.15

VOP-1

SZILVIA KANIZSAI¹, JÓZSEF ONGRÁDI¹, JÁNOS ARADI² AND ♦KÁROLY NAGY¹

MOLECULAR EVENTS DETERMINING PRIMARY HIV INFECTIONS: NEW APPROACH FOR INHIBITION OF HIV ENTRY

¹Institute of Medical Microbiology, faculty of Medicine, Semmelweis University, Budapest; ²Department of Biochemistry, Medical and Health Science Center, University of Debrecen, Debrecen, Hungary

11.15-11.30

VOP-2

♦JÚLIA SARKADI¹, MÁTÉ JANKOVICS², ÉVA PÁLLINGER³, ZOLTÁN KIS¹, ÉVA GÖNCZÖL¹ AND ILDIKÓ VISONTAI²

HIGH HUMORAL AND POOR CELL-MEDIATED IMMUNE RESPONSES IN MICE IMMUNIZED WITH A SEASONAL TRIVALENT INACTIVATED INFLUENZA VACCINE, FLUVAL AB (2013/14)

¹Division of Virology; ²Quality Assurance, National Center for Epidemiology; ³Department of Genetics, Cell- and Immunobiology, Faculty of Medicine, Semmelweis University, Budapest, Hungary

11.30-11.45

VOP-3

♦ANNA NAGY¹, ENIKŐ BÁN¹, ORSOLYA NAGY¹, EMŐKE FERENCZI¹, ÁGNES FARKAS¹, KRISZTIÁN BÁNYAI², SZILVIA FARKAS² AND MÁRIA TAKÁCS¹

DETECTION OF WEST NILE VIRUS RNA FROM HUMAN URINE AND SERUM SAMPLES DURING THE 2014 SEASONAL PERIOD

¹Division of Virology, National Center for Epidemiology; ²Institute for Veterinary Medical Research, Centre for Agricultural Research, Hungarian Academy of Sciences, Budapest, Hungary

11.45-12.00

VOP-4

♦ANDREA HETTMANN¹, ANETT DEMCSÁK², GÁBOR DECSI³, ÁDÁM BACH⁴, DÓRA PÁLINKÓ⁴, LÁSZLÓ ROVÓ⁴, KATALIN NAGY³, MÁRIA TAKÁCS AND JÁNOS MINÁROVITS²

THE PREVALENCE OF HUMAN PAPILLOMA VIRUS AND TORQUE TENO VIRUS IN HEAD AND NECK CANCER PATIENTS IN SOUTH-EAST HUNGARY

¹Department of Virology, National Center for Epidemiology, Budapest; ²Department of Oral Biology and Experimental Dental Research; ³Department of Oral Surgery, Faculty of Dentistry; ⁴Department of Oto-Rhyno- Laryngology and Head-Neck Surgery, Faculty of Medicine, University of Szeged, Szeged; ⁵Division of Virology, National Center for Epidemiology, Budapest, Hungary

12.00-12.15

VOP-5

♦IVA PODGORSKI, LAURA PANTÓ, MÁTÉ JÁNOSKA, ORSOLYA MÁRKÓ AND BALÁZS HARRACH

TAXONOMY PROPOSAL FOR OLD WORLD MONKEY ADENOVIRUSES – EXISTENCE OF SEVERAL NON-HUMAN, NON-APE PRIMATE ADENOVIRUS LINEAGES

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

12.15-12.30

VOP-6

◆JÓZSEF ONGRÁDI¹, BALÁZS STERCZ¹, JÓZSEF PÁNOVICS² AND KÁROLY NAGY¹

XMRV – A NEW RETROVIRUS

¹Institute of Medical Microbiology; ²Department of Urology, Faculty of Medicine, Semmelweis University, Budapest, Hungary

12.30-14.30 Lunch break

14.30-15.00 Coffee break

15.00-16.30 Károly Rauss Bacteriology Session

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

Chairpersons: Levente Emődy and Miklós Füzi

15.00-15.15

BOP-1

MIKLÓS FÜZI

HAS THE USE OF FLUOROQUINOLONES CONTRIBUTED TO THE WIDESPREAD DISSEMINATION OF THE MAJOR INTERNATIONAL CLONES OF METHICILLIN-RESISTANT *STAPHYLOCOCCUS AUREUS* AND EXTENDED-SPECTRUM B-LACTAMASE-PRODUCING *KLEBSIELLA PNEUMONIAE* IN THE HEALTHCARE SETTING?

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

15.15-15.30

BOP-2

◆ADRIENN TÓTHPÁL¹, SZILVIA KARDOS¹, KRISZTINA LAUB¹, TAMÁS TIRCZKA², MARK VAN DER LINDEN³ AND ORSOLYA DOBAY¹

DISAPPEARANCE OF PCV13 SEROTYPES (INCLUDING 19A) AMONG CARRIED PNEUMOCOCCI IN CHILDREN AGED 1-3 YEARS, WITHIN THE FIRST FEW YEARS OF VACCINATION

¹Department of Medical Microbiology, Faculty of Medicine, Semmelweis University, Budapest; ²Pneumococcal Reference Laboratory, National Center for Epidemiology, Budapest, Hungary; ³German National Reference Center for Streptococci, Department of Medical Microbiology, University Hospital Aachen, Aachen, Germany

15.30-15.45

BOP-3

◆ANITA VARGA-BOGDANOV¹, ILDIKÓ LANTOS², ILDIKÓ ESZIK², PÉTER BALÁZS³, JUDIT DEÁK¹, KATALIN BURIÁN², VALÉRIA ENDRÉSZ² AND DEZSŐ VIRÓK²

DETECTION OF *CHLAMYDIA TRACHOMATIS* ATTACHMENT TO EPITHELIAL CELLS BY THE CHLAMYCOUNT SOFTWARE USING IMAGES PRODUCED BY A DNA-CHIP SCANNER

¹Institute of Clinical Microbiology; ²Department of Medical Microbiology and Immunology, Faculty of Medicine; ³Department of Image Processing and Computer Graphics, Institute of Informatics, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

15.45-16.00

BOP-4

◆ JULIANNA MÓZES, EBRAHIMI FATEMEH, RENÁTÓ KOVÁCS, LÁSZLÓ MAJOROS AND GÁBOR KARDOS

CORRELATION BETWEEN CARRIAGE OF VIRULENCE-ASSOCIATED GENES AND LETHALITY IN A NEUTROPENIC MOUSE MODEL AMONG DIFFERENT *PSEUDOMONAS AERUGINOSA* CLONES

Department of Medical Microbiology, Medical and Health Science Center, University of Debrecen, Debrecen, Hungary

16.00-16.15

BOP-5

◆ DOMONKOS SVÁB¹, BALÁZS BÁLINT², GERGELY MARÓTI³ AND ISTVÁN TÓTH¹

PROPHAGES OF AN *ESCHERICHIA COLI* O157:H43 STRAIN

¹Enteric Bacteriology and Alimentary Zoonoses, Institute for Veterinary Medical Research, Centre for Agricultural Research, Hungarian Academy of Sciences, Budapest; ²Seqomics Biotechnology Ltd., Mórahalom; ³Microbial Genomics, Institute of Biochemistry, Biological Research Centre, Hungarian Academy of Sciences, Szeged, Hungary

16.15-16.30

BOP-6

◆ ISTVÁN TÓTH¹, DOMONKOS SVÁB¹, BALÁZS BÁLINT² AND GERGELY MARÓTI³

CHARACTERIZATION OF A NOVEL SHIGA TOXIN CONVERTING BACTERIOPHAGE FROM *SHIGELLA SONNEI*

¹Institute for Veterinary Medical Research, Centre for Agricultural Research, Hungarian Academy of Sciences, Budapest; ²Seqomics Biotechnology Ltd., Mórahalom; ³Institute of Biochemistry, Biological Research Centre, Hungarian Academy of Sciences, Szeged, Hungary

19.00

Congress banquet – Hemingway Restaurant

Thursday, July 9

Auditorium No.2

8.30-10.30 Friedrich Löffler Semi-plenary Session

Löffler, Johannes Friedrich August (1852-1915), studied medicine at Würzburg University and at the Friedrich Wilhelm University. He obtained his medical degree at Berlin in 1874. After a period of service as an army doctor, became an assistant in the Imperial Health Office, Berlin, where he was an associate of R. Koch. Then he was professor of hygiene at the University of Greifswald, where he served as rector and after that he became director of the R. Koch Institute for Infectious Diseases in Berlin. In 1884, together with E. Klebs they discovered the organism that causes diphtheria, *Corynebacterium diphtheriae*, commonly known as the Klebs–Löffler bacillus. Concurrently with É. Roux and A. Yersin, he pointed out the existence of a diphtheria toxin. Löffler also discovered the cause of swine erysipelas and swine plague and, with W. Schütz, identified the causative organism of glanders, *Pfeifferella (Malleomyces) mallei*. With P. Frosch he found that foot-and-mouth disease is caused by a virus - the first time the cause of an animal disease was attributed to a virus - and developed a serum against it.

Chairpersons: Tillmann Lueders, and Tamás Bakonyi

8.30-9.00

LSP-1

TILLMANN LUEDERS

UPDATING THE CONTROLS OF ANAEROBIC HYDROCARBON DEGRADATION IN GROUNDWATER: A MICROBIAL COMMUNITY PERSPECTIVE

Institute of Groundwater Ecology, Helmholtz Zentrum München, Neuherberg, Germany

9.00-9.30

LSP-2

◆ ANDRÁS TÁNCICS¹, MILÁN FARKAS², TIBOR BENEDEK¹, SÁNDOR SZOBOSZLAY² AND BALÁZS KRISZT²

DIFFERENTIAL ENRICHMENT OF FE(III)-REDUCING BACTERIA FROM GROUNDWATER OF THE SIKLÓS BTEX-CONTAMINATED SITE, HUNGARY

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

9.30-10.00

LSP-3

RONALD P. DE VRIES

NOVEL DEVELOPMENTS IN PLANT BIOMASS DEGRADATION BY FUNGI

Fungal Physiology, CBS-KNAW Fungal Biodiversity Centre and Fungal Molecular Physiology, Utrecht University, Utrecht, The Netherlands

10.00-10.30

LSP-4

◆ TAMÁS BAKONYI^{1,2}, PETRA FORGÁCH², SZILVIA MARTON³, REBEKA LUCIJANA BERČIČ², LILLA VIDA³, MIKLÓS RUSVAI³ AND KRISZTIÁN BÁNYAI²

IDENTIFICATION OF A NOVEL DENSOVIRUS IN THE DARKLING BEETLE *ZOPHOBAS MORIO*

¹Department of Microbiology and Infectious Diseases, Faculty of Veterinary Science, Szent István University; ²Institute for Veterinary Research, Centre for Agricultural Research, Hungarian Academy of Sciences; ³Department of Pathology, Faculty of Veterinary Science, Szent István University, Budapest, Hungary

10.30-11.00 Coffee break

11.00-12.20 Carl Friedrich Wilhelm Wehmer Industrial Microbiology Session

Wehmer, Carl Friedrich Wilhelm (1858-1935), majored in chemistry and botany at the University of Göttingen and was admitted as a lecturer at the Technical College of Hanover. He started to study fungi in order to use them as a model system for the higher plants, but remained a mycologist throughout his life. The first fungal metabolic product he discovered was the oxalic acid, which was later followed by the discovery of citric acid. Two of his fungal isolates were able to produce relatively higher amounts of citric acid. He denominated them Citromyces, e.g. fungi that are able to overproduce citric acid (in fact, those isolates actually belong to *Penicillium*). In collaboration with the industry he applied for patents, and in 1893, the first fermentative citric acid process was presented to the market. The project, however, never surpassed the pilot stage for two reasons. One, the fermentor hardware was too expensive for a cheap commodity such as citric acid. Moreover, Wehmer could not find the necessary fermentation conditions that would have provided his fungi a selective advantage over other (contaminating) organisms - particularly regarding the acidity of the medium - and thus growth conditions remained favourable for many fungi, yeasts and bacteria. Nonetheless, Wehmer is rightly considered the pioneer of the highest-volume fungal fermentation process of the world.

Chairpersons: Arthur Ram and Bernhard Seiboth

11.00-11.20

FBP-1

◆ ERZSÉBET FEKETE, ANITA OROSZ, LÁSZLÓ KULCSÁR, MICHEL FLIPPHI AND LEVENTE KARAFFA

IDENTIFICATION AND EXPRESSION ANALYSIS OF A SECOND LACTOSE PERMEASE THAT COMPLETES THE UPTAKE OF THIS SUGAR IN *ASPERGILLUS NIDULANS*

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

11.20-11.40

FBP-2

◆ ALEKSANDRINA PATYSHAKULIYEVA¹, POST HARM², MIAOMIAO ZHOU¹, EDITA JURAK³, ALBERT J. R. HECK², KRISTIINA S. HILDÉN⁴, MIRJAM A. KABEL³, MIIRA R. MÄKELÄ⁴, MAARTEN A. F. ALTELAAR², RONALD P. DE VRIES¹

UNRAVELING THE ABILITIES OF *AGARICUS BISPORUS* TO DEGRADE PLANT BIOMASS THROUGHOUT ITS LIFE CYCLE

¹Fungal Physiology, CBS-KNAW Fungal Biodiversity Centre; ²Biomolecular Mass Spectrometry and Proteomics, Bijvoet Centre for Biomolecular Research and Utrecht Institute for Pharmaceutical Sciences, Utrecht University, Utrecht; ³Laboratory of Food Chemistry, Wageningen University, Wageningen, Netherlands; ⁴Department of Food and Environmental Sciences, University of Helsinki, Helsinki, Finland

11.40-12.00

FBP-3

BERNHARD SEIBOTH

SYSTEMS BIOLOGY APPROACHES FOR *TRICHODERMA REESEI* STRAIN ENGINEERING

Institute of Chemical Engineering, Vienna University of Technology, Vienna, Austria

12.00-12.20

FBP-4

◆ LEVENTE KARAFFA¹, RAFAEL DÍAZ¹, BENEDEK PAPP¹, ERZSÉBET FEKETE¹, ERZSÉBET SÁNDOR² AND CHRISTIAN P. KUBICEK³

A DEFICIENCY OF MANGANESE IONS IN THE PRESENCE OF HIGH SUGAR CONCENTRATIONS IS CRITICAL TO ACHIEVE HIGH ITACONIC ACID YIELDS BY *ASPERGILLUS TERREUS*

¹Department of Biochemical Engineering, faculty of Science and Technology; ²Institute of Food Science, Faculty of Agriculture, University of Debrecen, Debrecen, Hungary; ³ACIB GmbH, Austrian Centre of Industrial Biotechnology, Graz, Austria

12.20-14.30 Lunch break

14.30-15.00 Coffee break

15.00-16.45 János Szolnoki Environmental Microbiology Session

Szolnoki, János (1920-1978), Hungarian microbiologist, he worked as an associate in the Institute for Biological Research in Tihany, in the Soil Science and Agricultural Chemistry Research Institute and then in the Geochemical Research Laboratory in Budapest. Initially, he carried out research mainly in the field of the soil microbiology, and later he was interested in geomicrobiological issues. Among others he conducted research on topics of microbial mobilization of metals and biometallurgy. His conclusions have facilitated the understanding of the process of formation of secondary ore deposits. He also examined the microbiota of crude oil and studied the possibility of microbiology in the hydrocarbon research.

Chairpersons: Tamás Böjti and Károly Márialigeti

15.00-15.15

EOP-1

BÉLA RALOVICH

THE PLACE OF OUR EARTH IN THE UNIVERSE AND TURNING-POINTS IN ITS LIFE (THOUGHTS INDUCED BY THE CLIMATE CHANGE)

Balatonberény, Hungary

15.15-15.30

EOP-2

◆ ANNA SZALAY¹, FREDERICK VON NETZER² AND LUEDERS TILLMANN¹

EFFECT OF ELECTRON ACCEPTOR AVAILABILITY ON ANAEROBIC TOLUENE DEGRADER COMMUNITIES IN CONTAMINATED AQUIFERS

¹Institute for Groundwater Ecology, Helmholtz Zentrum München, Neuherberg, Germany; ²Department of Civil and Environmental Engineering, University of Washington Seattle, WA, USA

15.30-15.45

EOP-3

◆ TAMÁS BÖJTI^{1,2}, ROLAND WIRTH¹, GERGELY LAKATOS³, GERGELY MARÓTI³, ZOLTÁN BAGI¹ AND KORNÉL L. KOVÁCS^{1,4,5}

BIOGAS PRODUCTION FROM CHICKEN MANURE

¹Department of Biotechnology; ²Institute of Biochemistry, Faculty of Science and Technology, University of Szeged; ³Institute of Biochemistry, Biological Research Center; ⁴Institute of Biophysics, Biological Research Center, Hungarian Academy of Sciences, Szeged; ⁵Department of Oral Biology and Experimental Dentistry, Faculty of Dentistry, University of Szeged, Szeged, Hungary

15.45-16.00

EOP-4

◆ BALÁZS VAJNA¹, RENÁTA BÁNFI¹, ZSUZSANNA POHNER¹, SZABINA LUZICS¹, ATTILA SZABÓ¹, ADRIENN NAGY² AND KÁROLY MÁRIALIGETI¹

BACTERIAL COMMUNITY STRUCTURE CHANGES DURING COLONIZATION AND FRUITING BODY PRODUCTION OF OYSTER MUSHROOM USING A COMPOSTED NATURAL SUBSTRATE

¹Department of Microbiology, Faculty of Science, Eötvös Loránd University, Budapest; ²Pilze-Nagy Ltd., Kecskemét, Hungary

16.00-16.15

EOP-5

◆GÁBOR NYÍRÓ¹, ALEX MIRA², KÁROLY MÁRIALIGETI³ AND FRANCISCO RODRIGUEZ-VALERA⁴

ACCUMULATING EVIDENCE FOR THE ECOPARALOGOUS WAY OF MICROBIAL ADAPTATION

¹Molecular Medicine Research Group SU HAS, Office for Research Groups Attached to Universities and Other Institutions, Hungarian Academy of Sciences, Budapest, Hungary; ²Genomics and Health, Centre for Public Health Research (CSISP), Valencia, Spain; ³Department of Microbiology, Faculty of Science, Eötvös Loránd University, Budapest, Hungary; ⁴Division of Microbiology, Microbiology and Plant Production, University Miguel Hernández, San Juan de Alicante, Alicante, Spain

16.15-16.45

SPONSORED LECTURE

FABIO ZENNA

HOW A PHENOTYPE MICROARRAY CREATE A POWERFUL ID SYSTEM

BIOLOG Inc., Hayward, Ca, USA

19.00

Congress banquet – Hemingway Restaurant

Thursday, July 9

Classroom No.1

15.00-16.20 Jaques Lucien Monod Industrial Microbiology Session

Monod, Jacques Lucien (1910 – 1976), French biologist who was awarded a Nobel Prize in 1965. Monod (along with François Jacob) is famous for his work on the *E. coli lac* operon. They came up with a model for how the levels of some proteins in a cell are controlled. In their model, the manufacture of proteins is prevented when a repressor, encoded by a regulatory gene, binds to its operator, a specific site on the DNA next to the genes encoding the proteins. It is now known that repressor bound to the operator physically blocks RNA polymerase from binding to the promoter, the site where transcription of the adjacent genes begins. Study of the control of expression of genes in the *lac* operon provided the first example of a transcriptional regulation system. He also suggested the existence of mRNA molecules that link the information encoded in DNA and proteins. Monod is widely regarded as one of the founders of molecular biology. Monod's interest in the *lac* operon originated from his doctoral dissertation, for which he studied the growth of bacteria in culture media containing two sugars.

Chairpersons: Adrian Tsang and Ronald de Vries

15.00-15.20

FBP-5

◆ ÁKOS TÓTH¹, ERNA SZABÓ², RITA ELEK², ÁGNES HUBERT³, ISTVÁN NAGY⁴, BALÁZS KRISZT⁵, ANDRÁS TÁNCICS⁶, ISTVÁN NAGY³, TERÉZIA BARNA² AND JÓZSEF KUKOLYA⁷

CLONING, EXPRESSION AND BIOCHEMICAL CHARACTERIZATION OF ENDOMANNANASES FROM THREE DIFFERENT *THERMOBIFIDA* SPECIES

¹Department of Applied and Environmental Microbiology, Research Institute of Agro-Environmental Sciences, National Agricultural Research and Innovation Centre, Budapest; ²Department of Genetics and Molecular Biology, Faculty of Science and Technology, University of Debrecen, Debrecen; ³Department of Molecular Structural Biology, Max Planck Institute of Biochemistry, Martinsried, Germany; ⁴Institute of Biochemistry, Biological Research Centre, Hungarian Academy of Sciences, Szeged; ⁵Department of Environmental Safety and Ecotoxicology, Institute of Aquaculture and Environmental Safety; ⁶Regional University Center of Excellence in Environmental Industry, Faculty of Agricultural and Environmental Sciences, Szent István University, Gödöllő; ⁷Department of Applied and Environmental Microbiology, Research Institute of Agro-Environmental Science, National Agricultural Research and Innovation Centre, Budapest, Hungary

15.20-15.40

FBP-6

◆ ROLAND WIRTH¹, GERGELY LAKATOS², GERGELY MARÓTI², ZOLTÁN BAGI¹, JÁNOS MINÁROVICS³, KATALIN NAGY³, ÉVA KONDOROSI², GÁBOR RÁKHELY^{1,4} AND KORNÉL L. KOVÁCS^{1,3,4}

COUPLED HYDROGEN AND BIOGAS PRODUCTION FROM ALGAL-BACTERIAL BIOMASS

¹Department of Biotechnology, Faculty of Science and Technology, University of Szeged; ²Institute of Biochemistry Biological Research Center, Hungarian Academy of Science; ³Department of Oral Biology and Experimental Dental Research, Faculty of Dentistry, University of Szeged; ⁴Institute of Biophysics, Biological Research Center, Hungarian Academy of Sciences, Szeged, Hungary

15.40-16.00

FBP-7

◆ ARTHUR F.J. RAM¹, JING NIU¹, MARK ARENTHORST¹, DEEPA NAIR¹, JENS FRISVAD², KRISTIAN NIELSEN² AND PETER J. PUNT^{1,3}

SYSTEMS GENETICS TO CHARACTERIZE CLASSICAL MUTANTS IN THE INDUSTRIAL HOST *ASPERGILLUS NIGER*: IDENTIFICATION OF A GLOBAL REGULATORY GENE TO BE INVOLVED IN METABOLITE AND PROTEIN PRODUCTION

¹Molecular Microbiology and Biotechnology, Institute of Biology Leiden, Leiden University, Leiden, The Netherlands; ²Department for Systems Biology, Technical University of Denmark, Lyngby, Denmark; ³TNO Microbiology and Systems Biology, Zeist, The Netherlands

16.00-16.20

FBP-8

◆ADRIAN TSANG¹, JUSTIN POWLOWSKI²

THE USE OF GOLD-STANDARD GENOMIC INFORMATION IN THE DEVELOPMENT OF AN INDUSTRIAL PLATFORM FOR PROTEINS AND METABOLITES PRODUCTION

¹Biology; ²Chemistry and Biochemistry, Concordia University, Montreal, Canada

19.00

Congress banquet – Hemingway Restaurant

Thursday, July 9

Classroom No. 2

15.00-16.30 Boris Ephrussi Mycology Session

Boris Ephrussi (1901-1979) was a geneticist, who started his scientific career as a Russian émigré at University of Paris. In the first phase he studied the effect of intracellular and extracellular factors on the regulation of embryo development. After the Second World War he started working with yeasts at the Rothschild Institute in Paris and later at CNRS in Gif Sur Yvette. He discovered non-Mendelian inheritance of cytoplasmic petite mutation and made it clear that some mitochondrial functions were under the control of self-reproducible cytoplasmic factors called rho.

Chairpersons: Manfred Schmidt and Csaba Vágvölgyi

15.00-15.15

MOP-1

◆RENÁTA TÓTH¹, ADÉL TÓTH¹, CSABA PAPP¹, CSABA VÁGVÖLGYI¹, MARIA F. ALONSO², JUDITH M. BAIN², LARS-PETER ERWIG² AND ATTILA GÁCSE¹

INVESTIGATION OF THE STAGE SPECIFIC PROCESS OF *CANDIDA PARAPSILOSIS* PHAGOCYTOSIS BY MACROPHAGES AND DETECTION OF INTRACELLULAR SURVIVAL STRATEGIES

¹Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary; ²Aberdeen Fungal Group, Institute of Medical Sciences, University of Aberdeen, Aberdeen, UK

15.15-15.30

MOP-2

◆ENIKŐ BARABÁS-HAJDU¹, SZABOLCS SÁNDOR², TEODORA CIGHIR³, LÁSZLÓ MAJOROS⁴, MÓNICA KOVÁCS⁵ AND ANNA MARÁZ⁵

URINARY TRACT INFECTIONS CAUSED BY *TRICHOSPORON*

¹Pharmacology, Clinical Pharmacology and Microbiology, Faculty of Pharmacy; ²Faculty of Medicine, Medical and Pharmaceutical University Targu-Mures, Targu-Mures, Romania; ³Bacteriology, County Hospital Targu Mures, Romania; ⁴Department of Medical Microbiology, Medical and Health Science Center, University of Debrecen, Hungary; ⁵Department of Microbiology and Biotechnology, Corvinus University of Budapest, Budapest, Hungary

15.30-15.45

MOP-3

◆GÁBOR NAGY¹, ÉVA BOGÁR¹, ORSOLYA PÁLL¹, KERSTIN VOIGT², CSABA VÁGVÖLGYI¹ AND TAMÁS PAPP¹

LOCALIZATION OF DIFFERENT ISOPRENOID BIOSYNTHETIC PATHWAYS IN *MUCOR CIRCINELLOIDES*

¹Department of Microbiology, Faculty of Science and Technology, University of Szeged, Szeged, Hungary; ²Jena Microbial Resource Collection, Leibniz Institute for Natural Product and Infection Biology, Jena, Germany

15.45-16.00

MOP-4

◆EMESE PATAKI¹, RONIT WEISMAN^{2,3}, MÁTYÁS SIPICZKI¹ AND IDA MIKLÓS¹

FHL1 CONTROLS TRANSCRIPTION OF THE NITROGEN STARVATION INDUCED GENES IN COOPERATION WITH TORC1 IN *SCHIZOSACCHAROMYCES POMBE*

¹Department of Genetics and Applied Microbiology, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary; ²Department of Molecular Microbiology and Biotechnology, Tel Aviv University, Tel Aviv; ³Department of Natural Sciences, Open University of Israel, Ranana, Israel

16.00-16.15

MOP-5

◆ÉVA LEITER¹, HEESOO PARK², NAK-JUNG KWON², TAMÁS EMRI¹, VIKTOR OLÁH³, ILONA MÉSZÁROS³, BEATRIX DIENES⁴, LÁSZLÓ CSERNOCH, JAE-HYUK YU² AND ISTVÁN PÓCSI¹

MODULATING MITOCHONDRIAL FUNCTION AND MORPHOLOGY IN ◆ HAD LOW IMPACT ON CELLULAR PHYSIOLOGY AND AGEING

¹Department of Biotechnology and Microbiology, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary;

²Department of Bacteriology and Genetics, University of Wisconsin, Madison, Wisconsin, USA; ³Department of Botany; ⁴Department of Physiology, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary

16.15-16.30

MOP-6

◆HELGA TIMA¹, ANITA RÁCZ², ZSUZSANNA GULD³, CSILLA MOHÁCSINÉ FARKAS¹ AND GABRIELLA KISKÓ¹

FOOD SAFETY RISK OF DEOXYNIVALENOL, ZEARALENONE, T-2 MYCOTOXINS IN SWINE FEED FROM THREE MANUFACTURERS IN HUNGARY

¹Department of Microbiology and Biotechnology; ²Department of Applied Chemistry, Faculty of Food Science; ³Department of Oenology, Faculty of Horticulture, Corvinus University of Budapest, Budapest, Hungary

19.00

Congress banquet – Hemingway Restaurant

Thursday, July 9

Poster Corridor

11.00-13.00 Bacteriology Poster Session

BPP-1

◆ JUDIT DOMOKOS¹, DÓRA SZABÓ¹, BÉLA KOCSIS¹ AND KATALIN KRISTÓF²

DETECTION OF PLASMID-MEDIATED QUINOLONE RESISTANCE DETERMINANTS IN ESBL PRODUCING ENTEROBACTERIACEAE STRAINS

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

BPP-2

◆ ADRIENN HANCZVIKKEL^{1,2} AND ÁKOS TÓTH^{2,3,4}

SILVER-SUSCEPTIBILITY OF MULTIDRUG RESISTANT NOSOCOMIAL GRAM-POSITIVE AND GRAM-NEGATIVE PATHOGENS

¹Doctoral School on Materials Sciences and Technologies, Óbuda University; ²Department of Bacteriology, National Center for Epidemiology, Budapest, Hungary; ³European Program for Public Health Microbiology Training (EUPHEM); ⁴European Centre for Disease Prevention and Control (ECDC), Stockholm, Sweden

BPP-3

◆ MOHAMED DAW¹, BIRGIT BABITSCH² AND CLAUDINE LEGAULT³

PULMONARY TUBERCULOSIS IN LIBYA: SOCIO-DEMOGRAPHIC CHARACTERISTICS OF PULMONARY TUBERCULOSIS IMMIGRANT AND NATIVE PATIENTS IN CHEST CLINIC IN LIBYA

¹Department of Family Medicine and Public Health, Sirte University, Sirte, Libya; ²Berlin School of Public Health, Charite – Universitätsmedizin Berlin, Berlin, Germany; ³Department of Biostatistician Sciences, School of Medicine, Wake Forest University, Winston-Salem, NC, USA

BPP-4

◆ BERNADETT KHAYER¹, ILDIKÓ FERENCZNÉ PALUSKA², JUDIT TÓTH³, TIBOR MAGYAR¹ AND ENIKŐ WEHMANN¹

HUMAN *BORDETELLA BRONCHISEPTICA* ISOLATES FROM HUNGARY

¹Respiratory Bacteriology, Institute for Veterinary Medical Research, Center for Agricultural Research, Hungarian Academy of Sciences; ²Bacteriology II, National Center for Epidemiology; ³Microbiology Laboratory, Synlab Budapest Diagnostic Center, Budapest, Hungary

BPP-5

◆ GÁBOR MURÁNYI, JÁNOS KISS AND FERENC OLASZ

EXCISION AND CONJUGAL TRANSFER OF A GENOMIC ISLAND: INVESTIGATIONS OF SG11- ENCODED ORFS OF UNKNOWN FUNCTIONS

Department for Genetics, Agricultural Biotechnology Institute, National Agricultural Research and Innovation Centre, Gödöllő, Hungary

BPP-6

◆ DÓRA PARÓCZAI¹, ZOLTÁN MOLNÁR², PÉTER BALÁZS² AND DEZSÓ PÉTER VIRÓK¹

ANDROID SMARTPHONE APPLICATION FOR THE AUTOMATIC COUNTING OF BACTERIAL COLONIES

¹Department of Medical Microbiology and Immunobiology; ²Department of Image Processing and Computer Graphics, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

BPP-7

◆SZUSZSANNA RÓNAI^{1,2}, ÁDÁM DÁN², ÁGNES CSIVINCSIK³ AND MIKLÓS GYURANECZ⁴

COMPARATIVE MIRU-VNTR ANALYSIS OF *MYCOBACTERIUM AVIUM* SUBSPECIES ISOLATES OF VETERINARY ORIGIN

¹Bacteriology; ²Molecular Biology, Directorate for Veterinary Diagnostics, National Food Chain Safety Office, Budapest; ³Institute for Diagnostics and Oncoradiology, University of Kaposvár, Kaposvár; ⁴Institute for Veterinary Medical Research, Centre for Agricultural Research, Hungarian Academy of Sciences, Budapest, Hungary

BPP-8

TÍMEA MOSOLYGÓ¹, MARION SZATMÁRI¹, JÓZSEF MOLNÁR¹, ANDREA CSONKA², ÁKOS CSONKA¹, LEONARD AMARAL³, KATALIN BURIÁN¹ AND ◆GABRIELLA SPENGLER¹

NEW PERSPECTIVES IN THE TREATMENT OF *CHLAMYDIA TRACHOMATIS* INFECTIONS: PHENOTHIAZINES AND DISILOXANE DERIVATIVES AS POTENTIAL ANTI-CHLAMYDIAL AGENTS

¹Department of Medical Microbiology and Immunobiology; ²Department of Obstetrics and Gynecology, Faculty of Medicine, University of Szeged, Szeged, Hungary; ³Institute of Hygiene and Tropical Medicine, Universidade Nova de Lisboa, Lisbon, Portugal

BPP-9

◆MELINDA SZILÁGYI-BÓNIZS, DÁVID LUKÁCS AND SÁNDOR BIRÓ

FEAST OR FAMINE: NUTRIENT MEDIATED REGULATION OF DIFFERENTIATION IN *STREPTOMYCES GRISEUS*

Department of Human Genetics, Medical and Health Science Center, University of Debrecen, Debrecen, Hungary

BPP-10

◆AMA SZMOLKA¹, ESTELLA PRUKNER-RADOVIC², IVAN KRIZEK² AND BÉLA NAGY¹

CEFOTAXIMASE (CTX-M) AND QUINOLONE RESISTANCE GENES (QNR) WITH ADDITIONAL ANTIMICROBIAL RESISTANCE MECHANISMS IN COMMENSAL *ESCHERICHIA COLI* FROM HEALTHY PIGS

¹Enteric Bacteriology and Foodborne Zoonoses, Institute for Veterinary Medical Research, Centre for Agricultural Research, Hungarian Academy of Sciences, Budapest, Hungary; ²Department of Avian Diseases, Faculty of Veterinary Medicine, University of Zagreb, Zagreb, Croatia

BPP-11

◆JUDIT TÓTH¹, ESZTER FEKETE², GABRIELLA TERHES², ALEXANDER INDRA³, VERENA PECAVAR³, EDIT URBÁN², HILDA OSZTIE¹ AND ERZSÉBET NAGY²

CAPILLARY GEL ELECTROPHORESIS-BASED PCR RIBOTYPING OF *CLOSTRIDIUM DIFFICILE* STRAINS COLLECTED AT TWO SITES OF HUNGARY IN 2014

¹Microbiology Laboratory, Synlab Budapest Center of Diagnostics, Synlab Hungary Ltd.; ²Institute of Clinical Microbiology, Faculty of Medicine, University of Szeged, Szeged, Hungary; ³Austrian Agency for Health and Food Safety, AGES, Vienna, Austria

BPP-12

◆ANDRÁS ÁDÁM¹, SZILVIA KAJÁRI², PÉTER VÁLYI² AND EDIT URBÁN¹

ROLE OF MALDI-TOF METHOD TO IDENTIFY BACTERIAL SPECIES FROM INFLAMED PERIODONTAL POCKETS

¹Institute of Clinical Microbiology, Faculty of Medicine; ²Department of Periodontology, Faculty of Dentistry, University of Szeged, Szeged, Hungary

BPP-13

◆ÉVA SZENTKIRÁLYI¹, ÖRS GYÓRFY², BALÁZS ITTÉZS², ISTVÁN BÁTAI² AND MÓNICA KERÉNYI¹

A FOLLOW UP STUDY OF COLONISATION AND SURVIVAL OF MULTIDRUG-RESISTANT STRAINS ON THE INNER AND OUTER SURFACE OF THE TAPS IN AN INTENSIVE CARE UNIT

¹Department of Medical Microbiology and Immunology; ²Department of Anaesthesiology and Intensive Therapy, Faculty of Medicine, University of Pécs, Pécs, Hungary

BPP-14

REBEKA LUCIJANA BERČIČ¹, ♦TAMÁS BAKONYI², DUSAN BENČINA¹

IS SITE-SPECIFIC RECOMBINASE XERC OF *MYCOPLASMA SYNOVIAE* INVOLVED IN ITS *VLHA* GENE RECOMBINATION?

¹Department of Animal Science, Biotechnical Faculty, University of Ljubljana, Domžale, Slovenia; ²Department of Microbiology and Infectious Diseases, Faculty of Veterinary Science, Szent István University, Budapest, Hungary

BPP-15

♦SABINA FIJAN AND SONJA ŠOSTAR TURK

INACTIVATION OF *ENTEROCOCCUS FAECIUM* UTILIZING PEROXYACETIC ACID OR ULTRAVIOLET RADIATION

Faculty of Health Sciences, University of Maribor, Maribor, Slovenia

11.00-13.00 Mycology Poster Session

MPP-1

♦FLÓRA BOHNER¹, RENÁTA TÓTH¹, CABRAL VITOR², JOSHUA D. NOSANCHUK², CSABA VÁGVÖLGYI¹ AND ATTILA GÁCSE¹

CHARACTERIZATION OF *CANDIDA PARAPSILOSIS* NULL MUTANTS GENERATED IN THE FRAME OF DELETION LIBRARY

¹Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary; ²Department of Microbiology and Immunology, Albert Einstein College of Medicine, Bronx, USA

MPP-2

♦ALIZ BOZÓ¹, MARIANNA DOMÁN¹, RENÁTÓ KOVÁCS¹, DAVID S. PERLIN², GÁBOR KARDOS¹, TAMÁS KARDOS³, ZOLTÁN TÓTH¹, QASEM SALEH¹ AND LÁSZLÓ MAJOROS¹

DOSE ESCALATION STUDIES WITH CASPOFUNGIN AGAINST *CANDIDA GLABRATA*

¹Department of Medical Microbiology, Medical and Health Science Center, University of Debrecen, Debrecen, Hungary; ²Public Health Research Institute, New Jersey Medical School-Rutgers, Newark, New Jersey, USA; ³Department of Pulmonology, Medical and Health Science Center, University of Debrecen, Debrecen, Hungary

MPP-3

BENEDIKTA BALLA, ♦CSABA GERGŐ PAPP, JUDIT SZENZENSTEIN, REGINA BERNÁTSKY, CSABA VÁGVÖLGYI AND ATTILA GÁCSE

INVESTIGATION OF *CANDIDA PARAPSILOSIS* SUSCEPTIBILITY TO CASPOFUNGIN

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

MPP-4

♦KATALIN KISS, ESZTER DARVAS AND JUDIT ZALA

DETECTION OF *ASPERGILLUS* GALACTOMANNAN ANTIGEN IN HUMAN SAMPLES WITH DIFFERENT METHODS

Department of Mycology, National Center for Epidemiology, Budapest, Hungary

MPP-5

ANNAMÁRIA KINCSES¹, GABRIELLA TERHES¹, EDIT URBÁN¹, ♦LÁSZLÓ KREDICS² AND ILONA DÓCZI¹

EPIDEMIOLOGY AND LABORATORY DIAGNOSTICS OF *BLASTOCYSTIS* SPECIES

¹Institute of Clinical Microbiology, faculty of Medicine; ²Department of Microbiology, Faculty of Science and Technology, University of Szeged, Szeged, Hungary

MPP-6

◆ ISTVÁN PÓCSI¹, MÁRTON MISKEI¹, YUQUAN XU², MIN LIN² AND ISTVÁN MOLNÁR³

SEQUENCING AND ANNOTATION OF THE GENOME OF THE NEMATOPHAGOUS FUNGUS *DRECHMERIA CONIOSPORA* REVEALS THE ARSENAL OF AN ENDOPARASITOID FUNGUS FOR THE INVASION OF ITS HOST ORGANISMS

¹Department of Biotechnology and Microbiology, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary; ²Biotechnology Research Institute, Chinese Academy of Agricultural Sciences, Beijing, China; ³Natural Products Center, School of Natural Resources and the Environment, University of Arizona, Tucson, AZ, USA

MPP-7

◆ LAJOS ÁCS-SZABÓ, BIANKA BALOGH, MATTHIAS SIPICZKI AND IDA MIKLÓS

INVESTIGATION OF THE FUNCTION AND STRUCTURE OF ACE2P - A CONSERVED REGULATOR OF CELL SEPARATION

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

MPP-8

◆ LAJOS ÁCS-SZABÓ, ZSUZSANNA HADHÁZI, MATTHIAS SIPICZKI AND IDA MIKLÓS

HOW COULD MEIOTIC DNA BREAKS DEFINE THE FATE OF GENE ORDER IN RELATED SPECIES?

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

MPP-9

◆ HAJNALKA CSOMA, LAJOS ÁCS-SZABÓ AND MATTHIAS SIPICZKI

THE MITOCHONDRIAL DNA RFLP ANALYSIS OF *CANDIDA ZEMPLININA* YEAST STRAINS

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

MPP-10

◆ EMESE PATAKI, MÁTYÁS SIPICZKI AND IDA MIKLÓS

INTERSPECIFIC COMPLEMENTATION ANALYSIS BETWEEN *SCHIZOSACCHAROMYCES POMBE* AND *CANDIDA ALBICANS*

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

MPP-11

MÓNKA KOVÁCS, GABRIELLA KISKÓ AND ◆ ANNA MARÁZ

LACTOSE UTILIZING ASCOMYCETOUS AND BASIDIOMYCETOUS YEASTS: CELLULAR LOCATION OF β -GALACTOSIDASE AND RELATION BETWEEN ENZYME ACTIVITY AND BIOMASS YIELD

Department of Microbiology and Biotechnology, faculty of Food Science, Corvinus University of Budapest, Budapest, Hungary

MPP-12

ILDIKÓ NYILASI, KRISZTINA DUDÁS, HAJNALKA JUHÁSZ, STELLA A. KOVÁCS, ANITA KECSKEMÉTI, OTTÓ BENCSIK, ANDRÁS SZEKERES, CSABA VÁGVÖLGYI AND ◆ TAMÁS PAPP

INVESTIGATION OF $\Delta 9$ AND $\Delta 6$ FATTY ACID DESATURASE GENE EXPRESSION IN POLYUNSATURATED FATTY ACID PRODUCING *MORTIERELLA* AND *UMBELOPSIS* STRAINS

Department of Microbiology, faculty of Science and Technology, University of Szeged, Szeged, Hungary

MPP-13

OTTÓ BENCSIK, PÉTER ROZINKA, ESZTER BOKOR, TAMÁS PAPP, ANDRÁS SZEKERES, ◆ CSABA VÁGVÖLGYI AND ZSUZSANNA HAMARI

ANALYTICAL MONITORING OF THE EARLY ELEMENTS OF NICOTINIC ACID DEGRADATION PATHWAY IN FILAMENTOUS FUNGI

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

MPP-14

◆ENIKŐ HORVÁTH¹, WALTER PÉTER PFLIEGLER² AND MATTHIAS SIPICZKI¹

FIRST STEP OF SPECIATION OR SIMPLY INTRASPECIES DIVERSITY? TWO PIGMENT-PRODUCING YEAST “SPECIES” SHOW NO DIFFERENCES IN PHYSIOLOGY OR SINGLE-COPY GENE SEQUENCES

¹Department of Genetics and Applied Microbiology; ²Department of Biotechnology and Microbiology, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary

MPP-15

FRUZZSINA BAKTI, ANITA KIRÁLY, ANNA MOLNÁR, ◆ÉVA LEITER, TAMÁS EMRI AND ISTVÁN PÓCSI

STUDY ON THE GLUTATHIONE METABOLISM IN THE FILAMENTOUS FUNGUS *ASPERGILLUS NIDULANS*

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

MPP-16

◆TAMÁS EMRI¹, VERA SZARVAS¹, ERZSÉBET OROSZ¹, KÁROLY ANTAL², HEE-SOO PARK³, KAP-HOON HAN⁴, JAE-HYUK YU³ AND ISTVÁN PÓCSI¹

INVESTIGATING THE ROLE OF ATFA IN CONTROLLING STRESS RESPONSES IN *ASPERGILLUS NIDULANS*

¹Department of Biotechnology and Microbiology, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary; ²Department of Zoology, Eszterházy Károly College, Eger, Hungary; ³Department of Bacteriology, University of Wisconsin, Madison, USA; ⁴Department of Pharmaceutical Engineering, Woosuk University, Wanju, Republic of Korea

MPP-17

◆JÓZSEF SZARVAS¹, ANDRÁS GEÖSEL² AND GERGELY VILLÁS¹

CHARACTERIZATION OF SOME *PLEUROTUS ERYNGII* ISOLATES IN CULTIVATION TESTS

¹Mushroom Spawn Plant and Strain Research Laboratory, Biokékes Nonprofit Ltd., Demjén; ²Department of Vegetable and Mushroom Growing, Faculty of Horticultural Science, Corvinus University of Budapest, Budapest, Hungary

MPP-18

◆JÓZSEF SZARVAS¹, KÁROLY PÁL² AND ANDRÁS GEÖSEL³

TRIALS FOR DISCRIMINATING *PLEUROTUS ERYNGII* ISOLATES BY PARTIAL *TEF1A* AND *RPB2* SEQUENCES

¹Mushroom Spawn Plant and Strain Research Laboratory, Biokékes Nonprofit Ltd., Demjén; ²Department of Microbiology and Food Technology, Eszterházy Károly College, Eger; ³Department of Vegetable and Mushroom Growing, Faculty of Horticultural Science, Corvinus University of Budapest, Hungary

MPP-19

ALEXANDRA KOTOGÁN¹, ◆ERIKA BEÁTA KERÉKES¹, GABRIELLA BABOS¹, JUDIT KRISCH², TAMÁS PAPP¹, MUTHUSAMY CHANDRASEKARAN³, SHINE KADAIKUNNAN³, NAIYF S. ALHARBI³, CSABA VÁGVÖLGYI¹ AND MIKLÓS TAKÓ¹

BIOCONVERSION OF OILSEED RESIDUES BY *RHIZOMUCOR MIEHEI* FOR PRODUCTION OF PHENOLIC ANTIOXIDANTS

¹Department of Microbiology; ²Institute of Food Engineering, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary; ³Botany and Microbiology Department, King Saud University, Riyadh, Saudi Arabia

MPP-20

OTTÓ BENCSIK, ANNAMÁRIA DÁM, ◆TAMÁS PAPP, CSABA VÁGVÖLGYI AND ANDRÁS SZEKERES

OPTIMIZATION OF THE CULTIVATION CONDITIONS OF *BIPOLARIS ORYZAE*

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

11.00-13.00 Agricultural Microbiology Poster Session

APP-1

◆JÓZSEF ZOLTÁN BORBÉLY, EMESE DEMIÁN, ANITA SZEGŐ, VERONIKA PÓS AND NOÉMI LUKÁCS

DIVERSITY OF dsRNA VIRUSES INFECTING THE *CAPSICUM* GENUS

Department of Plant Physiology and Plant Biochemistry, Faculty of Horticulture, Corvinus University of Budapest, Budapest, Hungary

APP-2

◆RITA KOVÁCS¹, ILDIKÓ PUSPÁN¹, BOGLÁRKA RIZÓ¹, CSILLA IMRE¹, NIKOLETTA PÉK², ÁDÁM IMRI¹, ÉVA KÁRPÁTI² AND JÓZSEF KUTASI¹

THE EFFECTS OF BIOCHAR ON RHIZOBACTERIA

¹Biofil Ltd.; ²Saniplant Ltd., Budapest, Hungary

APP-3

◆ILDIKÓ PUSPÁN¹, RITA KOVÁCS¹, BOGLÁRKA RIZÓ¹, CSILLA IMRE¹, NIKOLETTA PÉK², ÉVA KÁRPÁTI², ÁGNES AMBRUS³ AND JÓZSEF KUTASI¹

DEMONSTRATION OF PLANT-GROWTH PROMOTION BY STRESS TOLERANT SOIL BACTERIA IN POT AND FIELD SOIL INOCULATION TESTS

¹Biofil Ltd.; ²Saniplant Ltd., Budapest, Hungary; ³Laboratory of Soil Biology, Directorate of Plant Protection, Soil Conservation and Agri-environment, National Food Chain Safety Office, Pécs, Hungary

APP-4

◆BOGLÁRKA RIZÓ¹, RITA KOVÁCS¹, ILDIKÓ PUSPÁN¹, CSILLA IMRE¹, NIKOLETTA PÉK², ÉVA KÁRPÁTI² AND JÓZSEF KUTASI¹

COLLECTION OF STRESS TOLERANT SOIL BACTERIA WITH PLANT GROWTH PROMOTING AND SOIL AMELIORATIVE PROPERTIES

¹Biofil Ltd.; ²Saniplant Ltd., Budapest, Hungary

APP-5

◆FLÓRA SEBŐK, CSABA DOBOLYI, MÁTYÁS HARTMAN, ANITA RISA, CSILLA KRIFATON, MÁTYÁS CSERHÁTI, SÁNDOR SZOBOSZLAY AND BALÁZS KRISZT

TWO-YEAR STUDY OF THE AFLATOXIN-PRODUCING *ASPERGILLUS* STRAINS IN THE MAIZE FIELDS OF HUNGARY

Department of Environmental Safety and Ecotoxicology, Faculty of Agriculture and Environmental Sciences, Szent István University, Gödöllő, Hungary

APP-6

LÁSZLÓ TÁLAS¹, BENCE TÁNCZOS¹, JUDIT JÁKIM¹, ANDRÁS TARTALLY² AND ◆GÁBOR SZEMÁN-NAGY¹

REMOVAL OF *RICKIA WASMANNII* (LABOULBENIALES, ASCOMYCETES) INFESTATION FROM *MYRMICA SCABRINORDIS* ANTS

¹Department of Biotechnology and Microbiology; ²Department of Evolutionary Zoology and Human Biology, Faculty of science and Technology, University of Debrecen, Debrecen, Hungary

APP-7

TAMÁS MARIK¹, ANDRÁS SZEKERES¹, IRINA S. DRUZHININA², ◆CSABA VÁGVÖLGYI¹ AND LÁSZLÓ KREDICS¹

SEQUENTIAL DIVERSITY OF PEPTAIBOL PROFILES OF *TRICHODERMA* SPECIES CAUSING GREEN MOULD DISEASE OF CULTIVATED MUSHROOMS

¹Department of Microbiology, Faculty of Science and Technology, University of Szeged, Szeged, Hungary; ²Institute of Chemical Engineering, Vienna University of Technology, Wien, Austria

APP-8

PÉTER KÖRMÖCZI¹, HENRIETTA ALLAGA¹, RÓBERT KORMÁNYOS², GERGŐ KORMÁNYOS², ♦CSABA VÁGVÖLGYI¹ AND LÁSZLÓ KREDICS¹

TEMPERATURE-, PH- AND WATER ACTIVITY DEPENDENCE OF *PHOTORHABDUS LUMINESCENS* STRAINS AND THEIR IN VITRO INHIBITORY EFFECT TO *TRICHODERMA* SPECIES CAUSING MUSHROOM GREEN MOULD DISEASE

¹Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary; ²College for Gifted Students, Bolyai Secondary Grammar School, Zenta, Serbia

13.00-14.30 Environmental Microbiology Poster Session

EPP-1

♦ISTVÁN SZABÓ¹, KLÁRA PENTELENYI² AND BALÁZS KRISZT¹

AFLATOXIN M1 ANALYZES OF HUMAN BREAST MILK SAMPLES FROM HUNGARY

¹Department of Environmental Safety and Ecotoxicology, Faculty of Agriculture and Environmental Sciences, Szent István University, Gödöllő; ²Institute of Genomic Medicine and Rare Disorders, Faculty of Medicine, Semmelweis University, Budapest, Hungary

EPP-2

♦ANDREA PALÁGYI¹, ZOLTÁN BOZÓKI², TIBOR AJTAI², LÁSZLÓ MANCZINGER¹ AND CSABA VÁGVÖLGYI¹

TOXICITY INVESTIGATION OF AIR SAMPLES WITH MICROTITER PLATE METHODS

¹Department of Microbiology; ²MTA-SZTE Research Group on Photoacoustic Spectroscopy of Optics and Quantum Electronics, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

EPP-3

♦GERGŐ TÓTH¹, JUDIT HÁHN², SÁNDOR SZOBOSZLAY¹, CSILLA KRIFATON¹, JÚLIA RADÓ¹ AND BALÁZS KRISZT¹

INVESTIGATION OF THE BIODEGRADATION AND CYTOTOXICITY OF VARIOUS HERBICIDES

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

EPP-4

♦BÁLINT LÓRÁNT, MÁTÉ LÓKA AND GÁBOR MÁRK TARDY

INVESTIGATION OF BIODEGRADATION KINETICS OF DIFFERENT SUBSTRATES IN MICROBIAL FUEL CELLS (MFCs)

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

EPP-5

♦MÁTYÁS CSERHÁTI, CSILLA KRIFATON, IVETT OROSZ, MELINDA FÓZER AND BALÁZS KRISZT

THE EFFECT OF A SEWAGE PLANT RECONSTRUCTION ON THE WATER QUALITY OF THE RIVER ZAGYVA AT JÁSZBERÉNY CITY

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

EPP-6

♦MILÁN FARKAS¹, ANDRÁS TÁNCICS², FRUZZINA RÉVÉSZ¹, BALÁZS KRISZT¹ AND SÁNDOR SZOBOSZLAY¹

TRACKING THE ENRICHMENT OF FE(III)-REDUCING BACTERIA IN TWO SLIGHTLY DIFFERENT ENRICHMENT MEDIA

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

EPP-7

◆ERZSÉBET BAKA¹, ÁKOS TÓTH¹, SZABINA LUZICS¹, SÁNDOR VARGA¹, JUDIT BECZNER¹, ILDIKÓ BATA-VIDÁCS¹, ENDRE SÓS², LÁSZLÓ SZABÓ³, PETER SCHUMANN⁴, ERIKA TÓTH⁵ AND JÓZSEF KUKOLYA¹

***CORYNECOCCUS HYSTRIXII* GEN. NOV., SP. NOV., A XYLAN-DEGRADING BACTERIUM ISOLATED FROM THE FACES OF *HYSTRIX CRISTATA* FROM THE BUDAPEST ZOO AND BOTANICAL GARDEN, HUNGARY**

¹Department of Applied and Environmental Microbiology, Research Institute of Agro-Environmental Sciences, National Agricultural Research and Innovation Centre, Budapest, Hungary; ²Department of Veterinarian and Conservation, Budapest Zoo and Botanical Garden, Budapest, Hungary; ³Institute of Materials and Environmental Chemistry, Research Centre for Natural Sciences, Hungarian Academy of Sciences, Budapest, Hungary; ⁴Leibniz Institute DSMZ-German Collection of Microorganisms and Cell Cultures, Braunschweig, Germany; ⁵Department of Microbiology, Faculty of Science, Eötvös Loránd University, Budapest, Hungary

EPP-8

◆SZABINA LUZICS¹, ÁKOS TÓTH¹, ERZSÉBET BAKA¹, SÁNDOR VARGA¹, CRISTINA LA RICCIA¹, ILDIKÓ BATA-VIDÁCS¹, LÁSZLÓ SZABÓ², PETER SCHUMANN³, ERIKA TÓTH⁴ AND JÓZSEF KUKOLYA¹

***XYLANOBACILLUS XYLANOLYTICUS* GEN. NOV., SP. NOV., A MODERATELY THERMOPHILIC SPECIES WITHIN THE FAMILY PAENIBACILLACEAE**

¹Department of Applied and Environmental Microbiology, Research Institute of Agro-Environmental Sciences, National Agricultural Research and Innovation Centre; ²Institute of Materials and Environmental Chemistry, Research Centre for Natural Sciences, Hungarian Academy of Sciences, Budapest, Hungary; ³Leibniz Institute DSMZ-German Collection of Microorganisms and Cell Cultures, Braunschweig, Germany; ⁴Department of Microbiology, Faculty of Science, Eötvös Loránd University, Budapest, Hungary

EPP-9

JUDIT KOSZTIK, SÁRA SZURÓCZKI, ZSUZSA KÉKI, KÁROLY MÁRIALIGETI AND ◆ERIKÁ TÓTH

NOVEL BACTERIA ISOLATED FROM THE WATER OF A THERMAL BATH, BUDAPEST

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

EPP-10

◆GERGELY KRETT, ZSUZSANNA NAGYMÁTÉ, KÁROLY MÁRIALIGETI AND ANDREA BORSODI

TEMPORAL AND SPATIAL FLUCTUATIONS OF PLANKTONIC BACTERIAL COMMUNITY STRUCTURES OF LAKE HÉVÍZ REVEALED BY DGGE

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

EPP-11

◆ROBERT RAMALEY¹ AND KÁROLY MÁRIALIGETI²

MICROBIAL COLONIZATION OF REMOTE AND NEWLY EMERGENT HOT SPRINGS IN HUNGARY AND WESTERN UNITED STATES

¹Biochemistry and Molecular Biology, University of Nebraska Medical Center, Omaha, USA; ²Department of Microbiology, Faculty of Science, Eötvös Loránd University, Budapest, Hungary

EPP-12

JÚLIA MARGIT ASZALÓS¹, GERGELY KRETT¹, DÓRA ÁNDA¹, KÁROLY MÁRIALIGETI¹, BALÁZS NAGY² AND ◆ANDREA K. BORSODI¹

DIVERSITY OF EXTREMOPHILIC BACTERIA IN THE HIGH-ALTITUDE LAKES OF OJOS DEL SALADO VOLCANO, DRY ANDES

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

EPP-13

◆ANIKÓ MENTES¹, ZSOLT GYULA KERESZTES², BOGLÁRKA SOMOGYI³, KÁROLY MÁRIALIGETI¹, LAJOS VÖRÖS³ AND TAMÁS FELFÖLDI¹

TAXONOMIC COMPOSITION OF PICOCYANOBACTERIAL COMMUNITIES IN CENTRAL EUROPEAN LAKES

¹Department of Microbiology, Faculty of Science, Eötvös Loránd University, Budapest, Hungary; ²Department of Molecular Biology and Biotechnology, Babeş-Bolyai University, Cluj-Napoca, Romania; ³Balaton Limnological Institute, Centre for Ecological Research, Hungarian Academy of Sciences, Tihany, Hungary

EPP-14

◆MÁRTON MUCSI^{1,2}, TIBOR SZILI-KOVÁCS¹, PETRA NYERKY², BARBARA SZIRÁNYI², PÉTER CSONTOS¹ AND ANDREA K. BORSODI²

GENETIC DIVERSITY AND CATABOLIC ACTIVITY PROFILES OF RHIZOSPHERE BACTERIAL COMMUNITIES FROM SOLONCHAK GRASSLANDS IN APAJPUSZTA, KISKUNSAG NP, HUNGARY

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

EPP-15

ZSUZSANNA NAGYMÁTÉ¹, ◆ZSUZSANNA POHNER¹, ANDRÁS KARI¹, CORREA YAN RODRIGUES², MEDINA ANDRÉ BORDINASSI³, CSABA ROMSICS¹, JÓZSEF KUTASI⁴, ILDIKÓ PUSPÁN⁴, ÉVA KÁRPÁTI⁵, RITA KOVÁCS⁴ AND KÁROLY MÁRIALIGETI¹

MONITORING THE SURVIVAL AND EFFECT OF PLANT GROWTH PROMOTING RHIZOBACTERIA APPLIED ON ACIDIC AGRICULTURAL SOIL

¹Department of Microbiology, Faculty of Science, Eötvös Loránd University, Budapest, Hungary; ²Bacteriology and Mycology Section, Evander Changes Institute, Ananindeua-Pai; ³Faculty of Philosophy, Sciences and Languages of Ribeirão Preto, University of Sao Paulo, Ribeirão Preto-SP, Brazil; ⁴BioFil Ltd.; ⁵Saniplant Ltd., Budapest, Hungary

EPP-16

◆RAMÓNA KOVÁCS¹, TIBOR SZILI-KOVÁCS¹, ISTVÁN PARÁDI², ANDREA K. BORSODI³, ANNA FÜZY¹ AND TÜNDE TAKÁCS¹

MYCORRHIZAL STATUS AND MICROBIAL FUNCTIONALITY OF MYCORRHIZOSPHERE IN RELATION TO VEGETATION TYPES OF SOLONCHAK GRASSLAND IN APAJPUSZTA

¹Department of Soil Biology and Soil Biochemistry, Institute for Soil Sciences and Agricultural Chemistry, Centre for Agricultural Research, Hungarian Academy of Sciences; ²Department of Plant Physiology and Molecular Plant Biology; ³Department of Microbiology, Faculty of Science, Eötvös Loránd University, Budapest, Hungary

EPP-17

◆TÍMEA WILK¹, TIBOR NAGY², ENDRE BARTA², FERENC OLASZ¹, BALÁZS BÁLINT³, RÓBERT HERCZEG³, ISTVÁN NAGY^{3,4}, ÁKOS TÓTH⁵, SZABINA LUZICS⁵ AND JÓZSEF KUKOLYA⁵

DE NOVO GENOME PROJECT OF THE POLYSACCHARIDE DEGRADER BACTERIUM *XYLANOBACILLUS XYLANOSILYTICUS* SP. NOV, GEN. NOV

¹Laboratory of Microbiology; ²Agricultural Genomics and Bioinformatics, Agricultural Biotechnology Institute, National Agricultural Research and Innovation Centre, Gödöllő; ³SeqOmics Biotechnology Ltd., Mórahalom; ⁴Sequencing, Biological Research Centre, Hungarian Academy of Sciences, Szeged; ⁵Department of Applied and Environmental Microbiology, Research Institute of Agro-Environmental Sciences, National Agricultural Research and Innovation Centre, Budapest, Hungary

EPP-18

◆ZSUZSANNA NAGYMÁTÉ¹, JUDIT LAURA JURECSKA¹, CSABA ROMSICS¹, ÉVA MÉSZÁROS^{1,2}, FANNI TÓTH¹, ZSUZSANNA POHNER¹ AND KÁROLY MÁRIALIGETI¹

PREPARATION OF SCALED-UP DECHLORINATING INOCULUM IN THREE-PHASE ANAEROBIC MICROCOSMS AND MONITORING OF DECHLORINATION PROCESSES

¹Department of Microbiology, Faculty of Science, Eötvös Loránd University, Budapest, Hungary; ²Institute of Agricultural Sciences, ETH Zurich, Lindau, Switzerland

EPP-19

ISTVÁN MÁTHÉ¹, ATTILA SZABÓ², BALÁZS JÓZSEF NAGY², BOGLÁRKA SOMOGYI³, LAJOS VÖRÖS³, KÁROLY MÁRIALIGETI², ◆TAMÁS FELFÖLDI^{1,2}

PLANKTONIC MICROBIAL COMMUNITIES IN HELIOTHERMAL SALINE LAKES WITH DIFFERENT HUMAN IMPACT

¹Department of Bioengineering, Sapiientia Hungarian University of Transylvania, 530104 Miercurea Ciuc, Romania; ²Department of Microbiology, Faculty of Science, Eötvös Loránd University, Budapest; ³Balaton Limnological Institute, Centre for Ecological Research, Hungarian Academy of Sciences, Tihany, Hungary

13.00-14.30 Food Microbiology Poster Session

FPP-1

◆BERNADETT DEÁK AND ÁGNES BELÁK

ANTAGONISTIC EFFECT OF MICROORGANISMS ISOLATED FROM FOOD PROCESSING ENVIRONMENT ON FOOD-BORNE PATHOGENIC BACTERIA

Department of Microbiology and Biotechnology, Faculty of Food Science, Corvinus University of Budapest, Budapest, Hungary

FPP-2

◆TEKLA ENGELHARDT, ILKA HÓBOR, VIKTÓRIA DELI AND GABRIELLA KISKÓ

EXAMINATION THE BIOFILM FORMATION OF *LISTERIA* SPECIES AND *PEDIOCOCCUS ACIDILACTICI*

Microbiology and Biotechnology, Faculty of Food Science, Corvinus University of Budapest, Budapest, Hungary

FPP-3

◆ANNAMÁRIA GERŐCS¹, TIBOR FARKAS¹, KATALIN NEMES-BARNÁS¹, JÁNOS MÁJER², BARNA SZŐKE² AND FERENC OLASZ¹

INVESTIGATING THE YEAST MICROBIOTA OF THE BADACSONY WINE REGION: ISOLATION AND CHARACTERIZATION OF INDIGENOUS “TERROIR” STRAINS

¹Agricultural Biotechnology Institute, National Agricultural Research and Innovation Centre, Gödöllő; ²Research Institute for Viticulture and Enology, National Agricultural Research and Innovation Centre, Badacsonytomaj, Hungary

FPP-4

◆ERIKA BEÁTA KEREKES¹, ANITA VIDÁCS¹, CSABA VÁGVÖLGYI¹ AND JUDIT KRISCH²

MIXED CULTURE BIOFILMS: INHIBITION WITH ESSENTIAL OILS AND THEIR MAIN COMPONENTS

¹Department of Microbiology; ²Institute of Food Engineering, Faculty of Science and Technology, University of Szeged, Szeged, Hungary

FPP-5

◆SZILVIA KOVÁCS, ENIKÓ JUHOS AND TÜNDE PUSZTAHELYI

AFLATOXIN B1 PRODUCTION OF *ASPERGILLUS FLAVUS* UNDER DIFFERENT MEDIUM COMPOSITION

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

FPP-6

◆CSILLA KRIFATON¹, ERZSÉBET BAKA², ANITA RISA¹, HEDVIG HORVÁTH¹, JÓZSEF KUKOLYA² AND BALÁZS KRISZT¹

COMPARISON OF GENOTOXICITY TESTS USING DIFFERENT CYTOCHROME P450 ENZYMES AND REPORTERS FOR DETECTING AFLATOXINS AND ITS DERIVATIVES

¹Department of Environmental Safety and Ecotoxicology, Faculty of Agriculture and Environmental Sciences, Szent István University, Gödöllő; ²Department of Applied and Environmental Microbiology, Research Institute of Agro-Environmental Sciences, National Agricultural Research and Innovation Centre, Budapest, Hungary

FPP-7

◆ZSUZSANNA LIBA AND HENRIETTA VASKÓ

EFFECT OF APPLE ON QUANTITATIVE CHANGES OF PROBIOTICS BACTERIA

Department of Environmental Science, College of Nyíregyháza, Hungary

FPP-8

GÁBOR JÓNÁS¹, ADRIENN TÓTH¹, ♦CSABA NÉMETH², TAMÁS NÉMETH², DÁVID LÁNG², JÓZSEF SURÁNYI¹ AND LÁSZLÓ FRIEDRICH¹

HIGH HYDROSTATIC PRESSURE TREATMENT OF REDUCED SALT CONTENT DRY PRODUCTS FOR REASONS OF FOOD SAFETY

¹Department of Refrigeration and Livestock Products Technology, Faculty of Food Science, Corvinus University of Budapest; ²Department of Powder Workshop, Capriovus Ltd., Szigetcsép, Hungary

FPP-9

ADRIENN TÓTH¹, ♦CSABA NÉMETH², ODETT ELEK¹, DÁVID LÁNG², DIÁNA SZIKORÁNE NAGY², BARBARA CSEHI¹, ISTVÁN DALMADI¹ AND LÁSZLÓ FRIEDRICH¹

LIQUID EGG WHITE WITH EXTENDED SHELF LIFE AS A BASE FOR FRUIT DRINKS

¹Department of Refrigeration and Livestock Products Technology, Faculty of Food Science, Corvinus University of Budapest, Budapest; ²Department of Powder Workshop, Capriovus Ltd., Szigetcsép, Hungary

FPP-10

♦TÜNDE PETROVICS¹, ALEXANDRA VERESS¹, TÍMEA WILK¹, ZOLTÁN KERÉNYI², RÓBERT KOCSIS², TIBOR FARKAS¹, PÉTER PÁL PAPP¹ AND FERENC OLASZ¹

EXPLORING THE MICROBIOTA OF SAMPLES FROM TRADITIONAL DAIRY PRODUCTS DERIVED FROM A TRANSYLVANIAN FARM

¹Microbiology Laboratory, Department of Genetics, Agricultural Biotechnology Institute, National Agricultural Research and Innovation Centre, Gödöllő; ²Research and Development, Hungarian Dairy Research Institute Ltd., Mosonmagyaróvár, Hungary

FPP-11

♦ANITA RISA¹, CSILLA KRIFATON¹, DALMA MAJA DIVINYI¹, MÁTYÁS CSERHÁTI¹, JÓZSEF KUKOLYA² AND BALÁZS KRISZTI¹

EXAMINATION OF THE AFB1-DEGRADING PROFILE OF *RHODOCOCCLUS* TYPE STRAINS

¹Department of Environmental Safety and Ecotoxicology, Faculty of Agriculture and Environmental Sciences, Szent István University, Gödöllő; ²Department of Microbiology, Central Environmental and Food Science Research Institute, Budapest, Hungary

FPP-12

♦JÓZSEF SZARVAS¹, ANDRÁS GEÖSEL², VIKTOR PAPP³, ANITA KISS¹ AND KÁROLY PÁL⁴

IN VITRO INVESTIGATION OF THE EFFECT OF DIFFERENT MUSHROOM EXTRACTS ON PROBIOTIC BACTERIA

¹Mushroom Spawn Plant and Strain Research Laboratory, Biokékes Nonprofit Ltd., Demjén; ²Department of Vegetable and Mushroom Growing; ³Department of Botany and Soroksár Botanical Garden, Faculty of Horticultural Science, Corvinus University of Budapest, Budapest; ⁴Department of Microbiology and Food Technology, Eszterházy Károly College, Eger, Hungary

FPP-13

♦ALEXANDRA VERESS¹, TÜNDE PETROVICS¹, EDIT ZAJÁCSZ², ZOLTÁN KERÉNYI³, RÓBERT KOCSIS³, FERENC OLASZ¹ AND PÉTER PAPP¹

ISOLATION AND IDENTIFICATION OF BACTERIA FOUND IN HONEY SAMPLES

¹Agricultural Biotechnology Institute, National Agricultural Research and Innovation Centre; ²Institute of Apiculture and Bee Biology, Research Centre for Farm Animal Gene Conservation, Gödöllő; ³Research and Development, Hungarian Dairy Research Institute, Mosonmagyaróvár, Hungary

FPP-14

♦ANITA VIDÁCS¹, ERIKA KEREKES¹, JUDIT KRISCH² AND CSABA VÁGVÖLGYI¹

ANTIBACTERIAL EFFECT OF ESSENTIAL OIL COMBINATIONS

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

FPP-15

◆ ILDIKÓ BATA-VIDÁCS¹, ERZSÉBET BAKA¹, OLÍVIA CSERNUS¹, ÁKOS TÓTH¹, SZABINA LUZICS¹, SÁNDOR VARGA¹, ZSUZSANNA CSERHALMI², SÁNDOR FERENCZI², JÓZSEF KUKOLYA¹

THE EFFECT OF MICROWAVE, RADIO FREQUENCY TREATMENT, AND STEAMING ON THE CONTAMINATING MICROFLORA AND COLOUR OF SPICE PAPRIKA POWDER

¹Department of Applied and Environmental Microbiology Institute of Agro-Environmental Sciences; ²Food Science Research Institute, Agricultural Research and Innovation Centre, National Agricultural Research and Innovation Centre, Budapest, Hungary

13.30-14.30 Immunology and Parasitology Poster Session

PPP-1

◆ ILDIKÓ LANTOS, ILDIKÓ ESZI, DEZSÓ VIRÓK, TÍMEA MOSOLYGÓ, KATALIN BURIÁN AND VALÉRIA ENDRÉSZ

INTESTINAL CACO-2 CELLS SUPPORT *CHLAMYDIA* REPLICATION AND PRODUCE HUMAN BETA-DEFENSIN-2

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

PPP-2

◆ ESZTER JUDIT TÓTH¹, ÉVA BOROS², ALEXANDRA HOFFMANN¹, ISTVÁN NAGY², MUTHUSAMY CHANDRASEKARAN³, SHINE KADAIKUNNAN³, NAIYF S. ALHARBI³, CSABA VÁGVÖLGYI¹ AND TAMÁS PAPP¹

INTERACTION OF *CURVULARIA* STRAINS WITH HUMAN THP1 CELLS

¹Department of Microbiology, Faculty of Science and Informatics, University of Szeged; ²Biological Research Centre, Hungarian Academy of Sciences, Szeged, Hungary; ³Botany and Microbiology Department, King Saud University, Riyadh, Saudi Arabia

PPP-3

ADÉL TÓTH¹, ◆ ERIK ZAJTA^{1,1}, KATALIN CSONKA¹, MIHAI G. NETEA² AND ATTILA GÁCSER¹

CANDIDA PARAPSILOSIS* TRIGGERS NLRP3 INFLAMMASOME ACTIVATION – A COMPARISON WITH *CANDIDA ALBICANS

¹Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary; ²Department of Medicine, Radboud University, Nijmegen, Netherlands

PPP-4

◆ ISTVÁN KUCSERA¹, TIBOR VÁGÓ², ELTIGANI A. MAGID³, RITA FRAKNÓI⁴, LÁSZLÓ FÜSTÖS⁵, KÁROLY KOVÁCS⁵, JÓZSEF PAP-SZEKERES⁵ AND ENDRE MÉSZÁROS⁶

HUMAN *DIROFILARIA REPENS* INFECTION WITH UNUSUAL LOCALIZATION – CASE REPORT

¹Department of Parasitology, National Center for Epidemiology, Budapest; ²Department of Pathology; ³Department of Radiology, Bács-Kiskun County Teaching Hospital, Kalocsa; ⁴Department of Radiology, St. Rókus Hospital, Baja; ⁵Department General Surgery, Bács-Kiskun County Teaching Hospital, Kecskemét; ⁶Outpatients' Department of Infectious Diseases, St. Rókus Hospital, Baja, Hungary

PPP-5

◆ KATA HORVÁTI¹, SZILVIA BÓSZÉ¹, BERNADETT BACSA¹, HANNAH P. GIDEON², RENE GOLIATH², FADHEELA PATEL², MOLEBOGENG X. RANGAKA², FERENC HUDECZ^{1,3}, ROBERT J. WILKINSON^{2,4,5} AND KATALIN A. WILKINSON^{2,4}

DETECTION OF *MYCOBACTERIUM TUBERCULOSIS* SENSITIZATION USING A MODIFIED INTERFERON-GAMMA RELEASE ASSAY

¹MTA-ELTE Research Group of Peptide Chemistry, Faculty of Science, Eötvös Loránd University, Budapest, Hungary; ²CIDRI, IDM, University of Cape Town, Cape Town, South Africa; ³Department of Organic Chemistry, Faculty of Science, Eötvös Loránd University, Budapest, Hungary; ⁴Mill Hill Laboratory, The Francis Crick Institute, London, UK; ⁵Department of Medicine, Imperial College London, London, UK

13.30-14.30 Virology Poster Session

VPP-1

◆JUDIT DEÁK¹, FERENC JAKAB² AND GÁBOR KEMENESI²

SCREENING OF EMERGING VIRAL INFECTIONS UNDER THE CLIMATE CHANGE IN HUNGARY

¹Institute of Clinical Microbiology, Faculty of Medicine, University of Szeged, Szeged; ²Virological Research Group and Institute of Biology, Faculty of Sciences and János Szentágothai Research Center, University of Pécs, Pécs, Hungary

VPP-2

◆TAMÁS PÉTER GABELICS, ZOLTÁN LÁSZLÓ TARJÁN, MÓNIKA BALLMANN AND MÁRIA BENKŐ

GENETIC DIVERSITY OF PIGEON CIRCOVIRUSES IN HUNGARY

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

VPP-3

◆ZOLTÁN LÁSZLÓ TARJÁN AND JUDIT J. PÉNZES

FULL GENOME SEQUENCE OF NOVEL CIRCOVIRUSES DETECTED IN LOWER VERTEBRATE ANIMALS

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

Friday, July 10

Auditorium No.1

8.30-10.30 Paul Ehrlich Plenary Session

Ehrlich, Paul (1854 – 1915) was a German physician and scientist who worked in the fields of immunology, hematology, and antimicrobial chemotherapy. He invented the precursor technique to Gram staining bacteria. His laboratory discovered arsphenamine (Salvarsan), the first effective medicinal treatment for syphilis, thereby initiating and also naming the concept of chemotherapy. Ehrlich popularized the concept of a "magic bullet." He also made a decisive contribution to the development of an antiserum to combat diphtheria and conceived a method for standardizing therapeutic serums. In 1908, he received the Nobel Prize in Physiology or Medicine for his contributions to immunology. He was the founder and first director of what is now known as the Paul Ehrlich Institute.

Chairpersons: Erika Tóth and László Kredics

8.30-9.00

ESP-1

PETER SCHUMANN

SENSITIVE DETECTION OF PEPTIDOGLYCAN IN GRAM-NEGATIVE BACTERIA BY A GAS CHROMATOGRAPHIC AND MASS SPECTROMETRIC APPROACH

Services Microorganisms, DSMZ, Braunschweig, Germany

ESP-2

9.00-9.30

ISTVÁN MOLNÁR

TOWARDS “UNNATURAL PRODUCTS”: COMBINATORIAL BIOSYNTHESIS OF BIOACTIVE BENZENEDIOL LACTONE POLYKETIDES

Natural Products Center, School of Natural Resources and Environment, University of Arizona, Tucson, AZ, USA

9.30-10.00

ESP-3

KATA HORVÁTI¹, ZSUZSA BARANYAI¹, BERNADETT BACSA¹, MARTIN KRÁTKÝ², JARMILA VINŠOVÁ², ELEONÓRA SZABÓ³, ZSUZSA SENONER³, SÁNDOR DÁVID¹, KINGA FODOR⁴, GYULA BALKÁ⁵, MIKLÓS RUSVAI⁵, ÉVA KISS⁶, GERGŐ GYULAI⁶, VINCE GROLMUSZ⁷, BEÁTA VÉRTESSY⁸, FERENC HUDECZ^{1,9} AND ♦SZILVIA BŐSZE¹

COMBATING MYCOBACTERIUM TUBERCULOSIS WITH NOVEL COMPOUNDS: HOST CELL TARGETING STRATEGIES IN A SERIES OF IN VITRO AND IN VIVO MODELS

¹MTA-ELTE Research Group of Peptide Chemistry, Faculty of Science, Eötvös Loránd University, Budapest, Hungary; ²Department of Inorganic and Organic Chemistry, Faculty of Pharmacy, Charles University, Hradec Králové, Czech Republic; ³Laboratory of Bacteriology, Korányi National Institute for Tuberculosis and Respiratory Medicine, Budapest, Hungary; ⁴Department of State Veterinary Medicine and Agricultural Economics; ⁵Department of Pathology and Forensic Veterinary Medicine, Faculty of Veterinary Science, Szent István University, Budapest, Hungary; ⁶Laboratory of Interfaces and Nanostructures, Institute of Chemistry, Faculty of Science, Eötvös Loránd University, Budapest, Hungary; ⁷Protein Information Technology Group, Faculty of Science, Eötvös Loránd University, Budapest, Hungary; ⁸Institute of Enzymology, Research Centre for Natural Sciences, Hungarian Academy of Sciences, Budapest, Hungary; ⁹Department of Chemistry, Faculty of Science, Eötvös Loránd University, Budapest, Hungary

10.00-10.30

ESP-4

ATTILA GÁCSEK

REGULATION, FUNCTION AND STRUCTURE OF VIRULENCE FACTORS OF *CANDIDA PARAPSILOSIS*

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

10.30-11.00 Coffee break

11.00-12.15 Christian Gottfried Ehrenberg Environmental Microbiology Session

Ehrenberg, Christian Gottfried (1795 – 1876), German naturalist and microscopist, one of the most famous and productive scientists of his time. In 1818, he completed his doctoral dissertation on fungi. In 1820–1825, on a scientific expedition to the Middle East he collected thousands of specimens of plants and animals. Returning, he concentrated on microscopic organisms: examined water, soil, sediment, blowing dust and rock. He described flagellates (*Euglena* spp.), ciliates (*Paramecium* spp.), and fossils, in nearly 400 publications. He was particularly interested in diatoms, radiolaria, foraminifera and dinoflagellates. He recognized, that considerable masses of rock were composed of minute forms of animals or plants. He also demonstrated that the phosphorescence of the sea was due to organisms. He was a member of the Royal Swedish Academy of Sciences, a foreign member of the Royal Society of London.

Chairpersons: Tamás Felföldi and Andrea Borsodi

11.00-11.15

EOP-6

◆ KRISTÓF KORPONAI¹, BOGLÁRKA SOMOGYI², ATTILA SZABÓ¹, EMIL BOROS², LAJOS VÖRÖS² AND TAMÁS FELFÖLDI¹

PURPLE BACTERIAL BLOOM IN AN ALKALINE SODA PAN

¹Department of Microbiology, Faculty of Science, Eötvös Loránd University, Budapest; ²Balaton Limnological Institute, Centre for Ecological Research, Hungarian Academy of Sciences, Tihany, Hungary

11.15-11.30

EOP-7

◆ NÓRA TUGYI¹, LAJOS VÖRÖS¹, EMIL BOROS¹, KÁROLY MÁRIALIGETI², TAMÁS FELFÖLDI² AND BOGLÁRKA SOMOGYI¹

DISTRIBUTION AND ECOLOGY OF PHOTOHETEROTROPHIC BACTERIA IN HUNGARIAN SHALLOW LAKES

¹Department of Hydrobotany, Balaton Limnological Institute, Centre for Ecological Research, Tihany; ²Department of Microbiology, Faculty of Science, Eötvös Loránd University, Budapest, Hungary

11.30-11.45

EOP-8

◆ DÓRA ANDA¹, JUDIT MAKK¹, GERGELY KRETT¹, LAURA JURECSKA¹, KÁROLY MÁRIALIGETI¹, JUDIT MÁDL-SZÓNYI² AND ANDREA BORSODI¹

THERMOPHILIC BIOFILM AND WELL WATER PROKARYOTIC COMMUNITIES FROM BUDA THERMAL KARST SYSTEM REVEALED BY SEM AND MOLECULAR CLONING

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

11.45-12.00

EOP-9

◆ ATTILA SZABÓ¹, KRISTÓF KORPONAI¹, BOGLÁRKA SOMOGYI², LAJOS VÖRÖS², BALÁZS VAJNA¹, KÁROLY MÁRIALIGETI¹ AND TAMÁS FELFÖLDI¹

SEASONAL DYNAMICS OF MICROBIAL COMMUNITIES INHABITING TWO DISTINCT TYPES OF ALKALINE SODA PANS

¹Department of Microbiology, Faculty of Science, Eötvös Loránd University, Budapest; ²Balaton Limnological Institute, Centre for Ecological Research, Hungarian Academy of Sciences, Tihany, Hungary

12.00-12.15

EOP-10

◆ TAMÁS FELFÖLDI^{1,2}, ERIKA KOVÁCS², DEZSŐ RÓBERT FIKÓ², GYÖRGY TANKÓ², ATTILA SZABÓ¹, ZSUZSANNA NAGYMÁTÉ¹, SZABOLCS SZILVESZTER², ISTVÁN MÁTHÉ²

UNCONVENTIONAL STRATEGIES FOR THE CULTIVATION OF NEW BACTERIAL STRAINS FROM AQUATIC ENVIRONMENTS

¹Department of Microbiology, Faculty of Science, Eötvös Loránd University, Budapest, Hungary; ²Department of Bioengineering, Sapientia Hungarian University of Transylvania, Miercurea Ciuc, Romania

12.15-14.00 Lunch break

14.00 Closing Ceremony, Best Poster Award

Friday, July 10

Auditorium No.2

11.00-12.15 Franz Meyen Mycology Session

Meyen, Franz Julius Ferdinand (1804–1840) was a Prussian physician and botanist. He described *Saccharomyces cerevisiae* Meyen ex E.C. Hansen, the baker's yeast or the brewer's yeast, as well as the Humboldt penguin (*Spheniscus humboldti* Meyen), and other species, as well. He is also known as the author of the first major study in plant anatomy.

Chairpersons: Anna Maráz and Attila Gácsér

11.00-11.15

MOP-7

◆ TAMÁS EMRI¹, VERA SZARVAS¹, ERZSÉBET OROSZ¹, KÁROLY ANTAL², HEE SOO PARK³, KAP-HOON HAN⁴, JAE-HYUK YU³ AND ISTVÁN PÓCSI¹

DOES CORE ENVIRONMENTAL STRESS RESPONSE EXIST IN *ASPERGILLUS NIDULANS*?

¹Department of Biotechnology and Microbiology, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary;

²Department of Zoology, Eszterházy Károly College, Eger, Hungary; ³Department of Bacteriology, University of Wisconsin, Madison, USA;

⁴Department of Pharmaceutical Engineering, Woosuk University, Wanju, Republic of Korea

11.15-11.30

MOP-8

◆ TÜNDE PUSZTAHELYI^{1,2}, TAMÁS EMRI² AND ISTVÁN PÓCSI²

EXPRESSION OF SRRA STRESS RESPONSE REGULATOR FACTOR AFFECTED BY BOTH CELL WALL INTEGRITY STRESS AND Δ RLM1 MUTATION IN *ASPERGILLUS NIDULANS* FILAMENTOUS FUNGUS

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

11.30-11.45

MOP-9

◆ ANDREA POMÁZI AND ANNA MARÁZ

BIODEGRADATION ACTIVITY OF CELLULOLYTIC FUNGI ISOLATED FROM COMPOSTING AGRICULTURAL WASTES

Department of Microbiology and Biotechnology, Faculty of Food Technology, Corvinus University of Budapest, Budapest, Hungary

11.45-12.00

MOP-10

◆ GÁBOR SZEMÁN-NAGY¹, GÁSPÁR BÁNFALVI¹, VIKTOR DOMBRÁDI² AND ISTVÁN PÓCSI¹

THE PRIVATE LIFE OF INDIVIDUAL CELLS OF FUNGI FOLLOWED BY HIGH TEMPORAL RESOLUTION, NEAR-INFRARED TIME-LAPSE MICROSCOPY AND DIGITAL IMAGE ANALYSIS

¹Department of Biotechnology and Microbiology, Faculty of Science and Technology; ²Department of Medical Chemistry, Faculty of Medicine, University of Debrecen, Debrecen, Hungary

12.00-12.15

MOP-11

CSILLA KOVÁCS, FERENC PELES AND ◆ ERZSÉBET SÁNDOR

ENDOPHYTIC FUNGI ISOLATED FROM GTD SYMPTOMATIC GRAPEVINES AND TESTING POTENTIAL BIOCONTROL AGENTS FOR TREATMENT

Institute of Food Science, University of Debrecen, Debrecen, Hungary

12.15-14.00 Lunch break

Friday, July 10

Classroom No.1

11.00-12.30 György Ivánovics Bacteriology Session

Ivánovics, György (1904–1980), medical doctor, microbiologist, bacteriologist, member of the Hungarian Academy of Sciences, professor of microbiology at the Szeged University, founder of the Hungarian Society for Microbiology. His main research field was general bacteriology first of all the genetics of *Bacillus*. Together with his colleagues Prof Ivánovics discovered and characterized several bacillus phages as well as bactericid protein termed megacin produced *B. megaterium* strains.

Chairpersons: Elisabeth Nagy and Orsolya Dobay

11.00-11.15

BOP-7

SZILVIA KARDOS¹, ADRIENN TÓTHPÁL¹, KRISZTINA LAUB¹, KATALIN KRISTÓF², ESZTER OSTORHÁZI^{1,2,3}, FERENC ROZGONYI³ AND ♦ORSOLYA DOBAY¹

STREPTOCOCCUS AGALACTIAE ISOLATES FROM THE DERMATOLOGY CLINIC OF SEMMELWEIS UNIVERSITY, BUDAPEST

¹Institute of Medical Microbiology; ²Institute of Laboratory Medicine; ³Institute of Dermatology, Dermatocology and Venerology, Faculty of Medicine, Semmelweis University, Budapest, Hungary

11.15-11.30

BOP-8

♦AMA SZMOLKA¹, MÓNI SZABÓ², TIBOR NAGY², JUDIT PÁSZTI³, NOÉMI NÓGRÁDY³, ERZSÉBET ADRIÁN⁴, FERENC OLASZ² AND BÉLA NAGY¹

INSIGHT INTO THE MOLECULAR CHARACTERISTICS OF NEW MULTIRESISTANT CLONES AND PLASMIDS OF *SALMONELLA* INFANTIS IN POULTRY AND MAN

¹Enteric Bacteriology and Foodborne Zoonoses, Institute for Veterinary Medical Research, Centre for Agricultural Research, Hungarian Academy of Sciences, Budapest; ²Department for Genetics, Agricultural Biotechnology Institute, National Agricultural Research and Innovation Centre, Gödöllő; ³Department of Phage-typing and Molecular Epidemiology, National Center for Epidemiology; ⁴Food and Feed Safety Directorate, National Food Chain Safety Office, Budapest, Hungary

11.30-11.45

BOP-9

♦FATEMEH EBRAHIMI, JULIANNA MÓZES AND GÁBOR KARDOS

CHANGES IN THE DISTRIBUTION OF ASYMPTOMATICALLY CARRIED ESBL-PRODUCING ENTEROBACTERIA AND THEIR ESBL GENES AMONG HEALTHY INDIVIDUALS

Department of Medical Microbiology, Medical and Health Science Center, University of Debrecen, Debrecen, Hungary

11.45-12.00

BOP-10

♦ANGÉLA VÁRADI, DOROTTYA FRANYÓ, ANITA KOZÁK, ZSUZSANNA DOMBRÁDI AND JUDIT SZABÓ

PREVALENCE OF BINARY TOXIN POSITIVE *CLOSTRIDIUM DIFFICILE* STRAINS AT THE CLINICS OF THE UNIVERSITY OF DEBRECEN, HUNGARY

Department of Medical Microbiology, Medical and Health Science Center, University of Debrecen, Debrecen, Hungary

12.00-12.15

BOP-11

◆ ANETT DEMCSÁK¹, GÁBOR DECSI², ÁDÁM BACH³, DÓRA PÁLINKÓ³, LÁSZLÓ ROVÓ³, KATALIN NAGY², EDIT URBÁN⁴, JÓZSEF SÓKI⁴ AND JÁNOS MINÁROVITS¹

DETECTION OF *FUSOBACTERIUM NUCLEATUM* IN SALIVARY SAMPLES OF HEAD AND NECK CANCER PATIENTS BY REAL TIME PCR

¹Department of Oral Biology and Experimental Dental Research; ²Department of Oral Surgery, Faculty of Dentistry; ³Department of Oto-Rhyno-Laryngology and Head and Neck Surgery; ⁴Institute of Clinical Microbiology, Faculty of Medicine, University of Szeged, Szeged, Hungary

12.15-12.30

BOP-12

◆ ZOLTÁN TIGYI¹, MARIANNA HORVÁTH¹, LÁSZLÓ PÓTÓ² AND GYÖRGY SCHNEIDER¹

COMPARISON OF THE INCIDENCE RATE OF DIFFERENT IRON ACQUISITION SYSTEMS OF COMMENSAL, CLINICAL AND ENVIRONMENTAL *KLEBSIELLA PNEUMONIAE* ISOLATES

¹Department of Medical Microbiology and Immunology; ²Institute of Bioanalysis, Medical School, University of Pécs, Pécs, Hungary

12.30-14.00 Lunch break

Friday, July 10

Classroom No. 2

11.00-12.30 Thomas Huckle Weller Immunology and Parasitology Session

Weller, Thomas Huckle (1915 –2008) was an American virologist. He studied also medical zoology and received a B.S. and an M.S., with his master's thesis on fish parasites. He, John Franklin Enders and Frederick Chapman Robbins were awarded a Nobel Prize in Physiology or Medicine in 1954 for showing how to cultivate poliomyelitis viruses in a test tube, using a combination of human embryonic skin and muscle tissue. In addition to his research on polio, for which he won the Nobel Prize, Weller also contributed to treating schistosomiasis, and Coxsackie viruses. He was also the first to isolate the virus responsible for varicella. In 1954 he was awarded the George Ledlie prize in recognition of his research on rubella, polio and cytomegalovirus viruses.

Chairpersons: Takács Mária and Rita Oláhné-Szabó

11.00-11.15

POP-1

◆ILDIKÓ ESZIK¹, ILDIKÓ LANTOS¹, FERENC SOMOGYVÁRI¹, KAMIL ÖNDER², KATALIN BURIÁN¹, VALÉRIA ENDRÉSZ¹ AND DEZSŐ VIRÓK¹

DEVELOPMENT OF A qPCR BASED METHOD FOR THE QUANTITATIVE MEASUREMENT OF CHLAMYDIA TRACHOMATIS GROWTH

¹Department of Medical Microbiology and Immunobiology, Faculty of Medicine, University of Szeged, Szeged, Hungary; ²Department of Dermatology, Paracelsus Medical University, Salzburg, Austria

11.15-11.30

POP-2

◆NÓRA MAGYAR, ÁGNES FARKAS, KATALIN N. SZOMOR AND MÁRIA TAKÁCS

COMPARATIVE STUDY OF ANTIBODY LEVELS DEVELOPED BY VACCINATION AGAINST POLIO VIRUS IN POPULATION AFTER VACCINE TYPE ALTERATION

Department of Virology, National Center for Epidemiology, Budapest, Hungary

11.30-11.45

POP-3

◆RITA OLÁHNÉ SZABÓ¹, MÓNIKA SEBESTYÉN¹, GYÖRGY KÓCZÁN¹, LÁSZLÓ KÓHIDAI² AND FERENC HUDECZ^{1,3}

DRUG TARGETING STRATEGY WITH POLYPEPTIDE BASED METHOTREXATE CONJUGATES AGAINST LEISHMANIA INFECTION

¹MTA-ELTE Research Group of Peptide Chemistry, Faculty of Science, Eötvös Loránd University; ²Department of Genetics, Cell and Immunobiology, Faculty of Medicine, Semmelweis University; ³Department of Organic Chemistry, Faculty of Science, Eötvös Loránd University, Budapest, Hungary

11.45-12.00

POP-4

MÁRIÓ GAJDÁCS¹, ENRIQUE DOMÍNGUEZ-ÁLVAREZ², JADWIGA HANDZLIK², KATALIN BURIÁN¹ AND ◆GABRIELLA SPENGLER¹

REVERSAL OF MULTIDRUG RESISTANCE BY SELENOESTER DERIVATIVES

¹Department of Medical Microbiology and Immunobiology, Faculty of Medicine, University of Szeged, Szeged, Hungary; ²Department of Technology and Biotechnology of Drugs, Jagiellonian University, Kraków, Poland

12.00-12.15

POP-5

LEVENTE SZAKÁCS

T-HELPER ACTIVITY IN MYCOBACTERIUM INFECTION

Department of Medical Microbiology, Medical and Health Science Center, University of Debrecen, Debrecen, Hungary

12.15-12.30

POP-6

KATALIN BURIÁN, ILDIKÓ ESZIK, ILDIKÓ LANTOS, ANITA BOGDANOV, VALÉRIA ENDRÉSZ AND ♦DEZSŐ PÉTER VIRÓK

IMPACT OF INTERFERON-GAMMA ON THE GENE EXPRESSION OF HUMAN EPITHELIAL CELLS

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

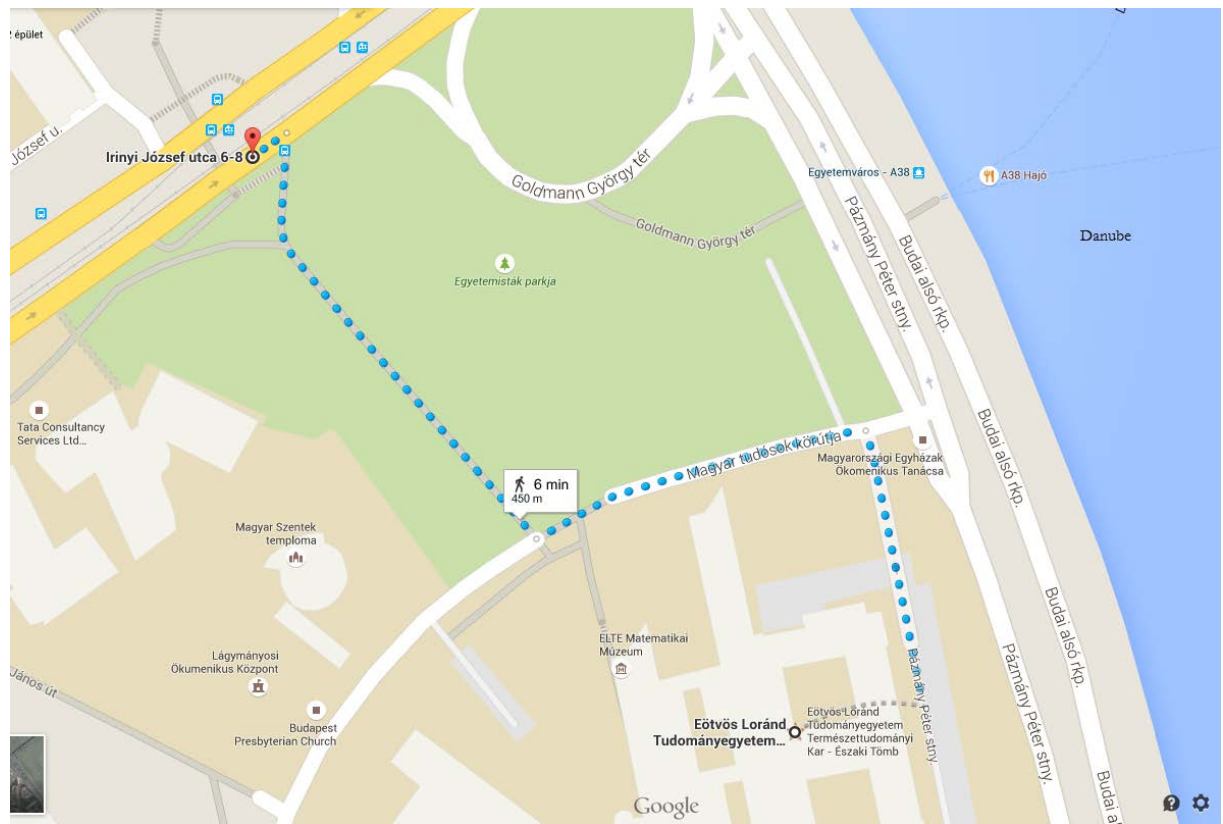
12.30-14.00 Lunch break

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