



C o n g r e s s

P r o g r a m m e

13

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

August 29 – September 1, 1999

BUDAPEST, HUNGARY



EÖTVÖS WORKSHOPS OF SCIENCE



PROGRAMME AT A GLANCE

Sessions of the Congress: • Agricultural and Food Microbiology (AFM) • Bacterial Biodiversity, General and Molecular Ecology and Systematics (BES) • Bacterial Pathogens and Pathogenesis of Medical and Veterinary Importance (BPM)

General and Microbial Immunology (GMI) • Interaction of Viral and Bacterial Infections (VBI) • IVANOVICS Memorial Session (IMS) • Medical, Veterinary and Plant Virology (APV) • Pathogenesis, Taxonomy, Molecular Biology and Physiology of Yeasts and Fungi (BYF) • Physiological and Molecular Basis of Metabolite Overproduction (MOP),

	Sunday	Monday	Tuesday	Wednesday	Thursday																																		
	August 29	August 30	August 31	September 1	September 2																																		
7		Breakfast 7.00 -	Breakfast 7.00 -	Breakfast 7.00 -	Post-congress Tour																																		
8		Registration (Entrance Hall)	Registration 8.00 -																																				
9		Mounting of posters (Corridor in Front of the Lecture Halls) 8.00 -	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 12.5%;">BPM</td> <td style="width: 12.5%;">AFM</td> <td style="width: 12.5%;"></td> <td style="width: 12.5%;">BES</td> <td style="width: 12.5%;"></td> </tr> <tr> <td>Posters</td> <td>Posters</td> <td></td> <td>Posters</td> <td></td> </tr> <tr> <td>8.30 – 9.30</td> <td>8.30 – 9.30</td> <td></td> <td>8.30 – 9.30</td> <td></td> </tr> </table>	BPM	AFM		BES		Posters	Posters		Posters		8.30 – 9.30	8.30 – 9.30		8.30 – 9.30																						
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11		Opening ceremony Plenary Session (Inaugural Lectures, Manninger Lecture, Special Lectures) (Big Lecture Theatre)	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 12.5%;">Red Lecture Hall</td> <td style="width: 12.5%;">Yellow Lecture Hall</td> <td style="width: 12.5%;">Green Lecture Hall</td> <td style="width: 12.5%;">Blue Lecture Hall</td> <td style="width: 12.5%;"></td> </tr> </table>	Red Lecture Hall	Yellow Lecture Hall	Green Lecture Hall	Blue Lecture Hall		<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 12.5%;">BPM</td> <td style="width: 12.5%;">IMS</td> <td style="width: 12.5%;">GMI</td> <td style="width: 12.5%;">MOP Lectures</td> <td style="width: 12.5%;"></td> </tr> <tr> <td>Lectures</td> <td>Lectures</td> <td>Lectures</td> <td>Lectures</td> <td></td> </tr> <tr> <td>9.30 – 12.00</td> <td>8.00 – 13.00</td> <td>9.00 – 12.30</td> <td>8.30 – 11.30</td> <td></td> </tr> <tr> <td>Red Lecture Hall</td> <td>Yellow Lecture Hall</td> <td>Green Lecture Hall</td> <td>Blue Lecture Hall</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Cultural programme</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>MOP Posters 11.30 - 12.30</td> </tr> </table>	BPM	IMS	GMI	MOP Lectures		Lectures	Lectures	Lectures	Lectures		9.30 – 12.00	8.00 – 13.00	9.00 – 12.30	8.30 – 11.30		Red Lecture Hall	Yellow Lecture Hall	Green Lecture Hall	Blue Lecture Hall						Cultural programme					MOP Posters 11.30 - 12.30
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15												ESCV .- ICHSM Joint Meeting 14.00 – 17.00 Green Lecture Hall					
16	Registration									BYF Posters							
	Mounting of posters	BPM Posters 16.30 – 18.00	AFM Posters 17.00 – 18.00		BES Posters 17.00 – 18.00				APV Posters 17.00 – 18.30	15.30 – 17.30							
17	16.00 -						BPM Posters 17.30 – 18.30										
18		General Assembly of the Hungarian Society for Microbiology* 18.00 – 19.00 Green Lecture Hall						AFM Posters 18.00 – 19.00									
19	Dinner 19.00 - 20.00																
20		Reception at Museum Ship “Kossuth”															
21		20.30 – Pest Abutment of “Széchenyi” Chainbridge															

*For Hungarian Society for Microbiology members only!

Sunday, August 29

16.00– 22.00	<i>Registration</i> at Entrance Hall of Congress Venue <i>Poster</i> authors are welcome to <i>affix</i> their presentations (Corridor in front of the Lecture Halls).
19.00– 20.00	<i>Dinner</i>

Monday, August 30

7.00 – 8.00	<i>Breakfast</i>
8.00 –	<i>Registration</i>
	<i>Mounting of posters</i>
10.00 – 13.30	OPENING CEREMONY - PLENARY SESSION (Big Lecture Theatre)
<i>Congress Welcome</i>	
10.00 – 10.20	István KLINGHAMMER Pro-Rector of the University András BENCZUR Dean of the Faculty Lajos GERGELY President of the Hungarian Society for Microbiology
10.20-11.50	Chairmen: L. GERGELY, J. MINÁROVITS
<i>Inaugural Lectures by Honorary Members of the Hungarian Society for Microbiology</i>	
10.20 - 10.50	Miklós DEGRÉ Cytomegalovirus interaction with blood and endothelial cells Institute of Medical Microbiology, University of Oslo, Rikshospitalet, Oslo, Norway
10.50 - 11.20	Éva Maria FENYŐ HIV biological phenotype and chemokine receptor usage Microbiology and Tumorbiology Center, Karolinska Institutet, Stockholm, Sweden
11.20 - 11.50	Peter RASPOR The influence of chromium compounds on yeast physiology Biotechnical Faculty, University of Ljubljana, Ljubljana, Slovenia
<i>Manninger Lecture</i>	
11.50 – 12.20	József FÖLDES From immunochemistry to molecular genetics. The nature of transfection in <i>Bacillus subtilis</i>. (Reminiscence of early days of scientific activity.) Department of Clinical Microbiology, Albert Szent-Györgyi Medical University, Szeged, Hungary
12.20 - 12.30	Coffee break
<i>Special Lectures</i>	

12.30 – 13.00	Arnold L. DEMAIN Importance of amino acids in regulating microbial secondary metabolism M.I.T. Cambridge, MA, USA
13.00 – 13.30	Claudine ELMERICH Diazotrophs associated with cereal crops Unit de Physiologie Cellulaire, Institut Pasteur, Paris, France
13.30 – 14.30	<i>Lunch</i>
14.30 – 18.00	AFTERNOON SESSIONS
<i>Agricultural and Food Microbiology Session – Lectures</i> (Yellow Lecture Hall)	
14.30 – 15.45	Chairmen: W. M. WAITES, M. KECSKÉS
14.30 – 15.00	AFM O1 <u>M. F. PATTERSON</u> ^{1,2} , M. LINTON ¹ , J. M. J. McCLEMENTS ¹ High pressure processing of foods for microbiological safety and quality <small>¹Food Science Division, Department of Agriculture for Northern Ireland, ²Department of Food Science, The Queen's University of Belfast, Belfast, Northern Ireland, UK.</small>
15.00 – 15.15	AFM O2 S. I. A. EL-SAID ² , M. M. ZAKI ¹ , N. G. EL-GAMAL ² <i>In-vitro</i> and <i>in-vivo</i> biological control for soil-borne fungi infected geranium plants (<i>Pelargonium graveolens</i> L.) <small>¹Agricultural Microbiology Department, Ain Shams University, Cairo, ²Plant Pathology Department N.R.C., Dokki, Giza, Egypt</small>
15.15 – 15.30	AFM O3 <u>J. FARKAS</u> , É. ANDRÁSSY, K. POLYÁK-FEHÉR, L. MÉSZÁROS Improvement of microbiological safety of vacuum-cooked meals by gamma irradiation <small>Department of Refrigeration and Livestock Products' Technology, University of Horticulture and Food Industry, Budapest, Hungary</small>
15.30 – 15.45	AFM O4

N. BOIKO¹, Z. FÁBRY², V. LYTVYN³, M. MIHÁLY⁴

Prophylactic effectiveness of a new bacterial biopreparation, “Monosporine- PK”, against acute gastrointestinal infections of some agricultural animals and poultry

¹Department of Plant Physiology and Biotechnology, ²Department of Biochemistry and Pharmacology, Uzhhorod State University, Uzhhorod, ³Department of Epizootiology, National Agriculture University, Kiev, ⁴Transcarpathian Epidemiological Control Center, Uzhhorod, Ukraine

15.45 –
16.00

Coffee break

16.00 –
17.00

Chairmen: M. F. PATTERSON, J. FARKAS

16.00 –
16.15

AFM O5

Cs. MOHÁCSI-FARKAS¹, G. KISKÓ¹, J. FARKAS², T. SÁRAY²

Investigations on application of antimicrobial agents from plants for food preservation

¹Department of Microbiology and Biotechnology, ²Department of Refrigeration and Livestock Products' Technology, University of Horticulture and Food Industry, Budapest, Hungary

16.15 –
16.30

AFM O6

K. CZELLENG¹, Z. SZÉPRÉTI², Z. KLEMENT¹

Research aspects of the green pepper pathogen *Pseudomonas viridiflava*'s virulence factors

¹Plant Protection Institute of the Hungarian Academy of Sciences, ²University of Horticulture and Food Industry, Budapest, Hungary

16.30 –
16.45

AFM O7

V. RAZAVILAR, S. SHEKARFOROUSH

Factorial growth of *Clostridium perfringens* as affected by temperature, salt, pH, acid type and storage time

Department of Food Hygiene, Faculty of Veterinary Medicine, Tehran, Iran

16.45 –
17.00

AFM O8

K. KÖVES-PÉCHY¹, B. BIRÓ¹, I. VÖRÖS¹, T. TAKÁCS¹, R. J. STRASSER²

Enhanced activity of inoculated associative and obligate nitrogen-fixers (*Azospirillum* and *Rhizobium* sp.) by AM fungi

¹Research Institute for Soil Science and Agricultural Chemistry, Hungarian Academy of Sciences, Budapest, Hungary,
²Laboratory of Bioenergetics, University of Geneva, Jussy-Geneva, Switzerland

Agricultural and Food Microbiology Session – Poster Discussion
(Corridor in front of the Lecture Halls)

17.00 –
18.00

Moderator: I. KISS

AFM P1

B. BIRÓ¹, L. KÖDÖBÖCZ², M. KECSKÉS², P. L. EBERBACH³

Comparative *in vitro* study for the herbicide sensitivity of various authentic and Hungarian *Rhizobium* strains belonging to different species

¹Research Institute for Soil Science and Agricultural Chemistry, Hungarian Academy of Sciences, Budapest,
²Agricultural-, Environmental Microbiology and Soil Biotechnology Ph.D. Subprogram, Gödöllő
University of Agricultural Sciences, Budapest, Hungary, ³University of Melbourne, Australia

AFM P2

W. MERBACH¹, S. RUPPEL²

Influence of different N compounds on the dinitrogen fixation of *Azospirillum* and *Pantoea*

¹Institute of Soil Science and Plant Nutrition, University of Halle/Wittenberg, ²Institute of Vegetable and Ornamental
Plant Science, Grossbeeren, Germany

AFM P3

Zs. MAYER^{1,2}, T. MÁTRAI¹, Zs. KÓKAI¹, I. SALAMON¹

Growth kinetics of common freed moulds monitored in constant a_w moisture chamber

¹Research Institute for Animal Breeding and Nutrition, ²Department of Microbiology and Biotechnology, University of
Horticulture and Food Industry, Budapest, Hungary

AFM P4

Zs. MAYER^{1,2}, T. MÁTRAI¹, Zs. KÓKAI¹, I. SALAMON¹

***Aspergillus* invertase (AI) test for the rapid detection of feed spoilage**

¹Research Institute for Animal Breeding and Nutrition, ²Department of Microbiology and Biotechnology, University of
Horticulture and Food Industry, Budapest, Hungary

AFM P5

K. POSTA¹, G. BAKONYI², I. KISS², M. FÁBIÁN², P. NAGY

Density dependent regulation of arbuscular mycorrhizal fungi by

fungivorous collembolan

¹Department of Microbiology, ²Department of Zoology and Ecology, Gödöllő University of Agricultural Sciences, Gödöllő, Hungary

AFM P6

H. JUHÁSZ-ROMÁN¹, E. SIMON², Á. TÓTH³

Special fermented milks with low protein- and phenylalanine content for phenylketonuric persons

¹Department of Microbiology and Biotechnology, University of Horticulture and Food Industry, Budapest, ²Corporation of Nestlé Hungária, Szerencs, ³Department of Chemistry and Biochemistry, University of Horticulture and Food Industry, Budapest, Hungary

AFM P7

S. BALÁZSI¹, O. REISINGER², D. M. TÓTH¹, I. SZOVÁTI¹

Heavy metals transport in *Zea mays* – *Ustilago maydis* system and airborne fungal spores

¹Botany Department, György Bessenyei College, Nyíregyháza, Hungary, ²Laboratoire d'Ecologie Microbienne Commun, Nancy, France

AFM P8

E. SZIGETI¹, O. REICHART², J. FARKAS³, B. BECKER⁴, W. H. HOLZAPFEL⁴

Modelling growth of *Lactococcus lactis*, *Listeria monocytogenes* and *Bacillus cereus* as a function of pH and temperature measured by turbidimetry

¹Department of Microbiology and Biotechnology, University of Horticulture and Food Industry, ²Department of Food Hygiene, University of Veterinary Science, ³Department of Refrigeration and Livestock Products' Technology, University of Horticulture and Food Industry, Budapest, Hungary, ⁴Institute of Hygiene and Toxicology, Federal Research Centre for Nutrition, Karlsruhe, Germany

AFM P9

L. KREDICS¹, Zs. ANTAL², L. MANCZINGER¹

Influence of water potential and temperature on growth, enzyme secretion and in vitro enzyme activities of *Trichoderma harzianum*

¹Department of Microbiology, József Attila University, Szeged, ²Research Group for Microbiology, Hungarian Academy of Sciences and Attila József University, Szeged, Hungary

AFM P10

M. L. Kecskés¹, I. Schröder², B. C. Ahohuendo³, M. Kuhlmann⁴, W. Dröge-Laser⁴, Z. Bozsó¹, G. P. Ott¹, Z. Klement¹, K. Rudolph²

A candidate factor in resistance mechanisms induced by phytopathogenic pseudomonads and xanthomonads: lipopolysaccharide

¹Plant Protection Institute, Hungarian Academy of Sciences, Budapest, Hungary, ²Plant Protection Institute, Georg-August University of Göttingen, ³National University of Benin, Cotonou, Benin, ⁴Botanical Institute, Georg-August University of Göttingen, Germany

AFM P11

H. DOMJÁN-KOVÁCS¹, K. RÁSKY², A. FÁBIÁN¹

Chemiluminescence enzyme immunoassay, a screening method for selective detection of *E. coli* O157:H7 from food

¹National Food Investigation Institute, ²Diagnosticum Ltd, Budapest, Hungary

Bacterial Biodiversity, General and Molecular Ecology and Systematics Session – Lectures
(Blue Lecture Hall)

14.30 –
17.00

Chairmen: P. SCHUMANN, K. MÁRIALIGETI

14.30 –
15.00

BES O1

F. A. RAINEY

Ionising radiation: a selective enrichment tool in culturable diversity assessment

Department of Biological Sciences, Louisiana State University, Baton Rouge, Louisiana, USA

15.00 –
15.30

BES O2

M. LEBUHN, B. MOGGE, M. SCHLOTTER, M. STOFFELS, A. HARTMANN

Improved *in situ* tracking of *Sinorhizobium meliloti* by a multiple staining approach, and effects of inoculation with *S. meliloti* on the rhizoplane microflora of alfalfa

GSF – National Research Center for Environment and Health, Institute of Soil Ecology, Neuherberg, Germany

15.30 –
15.45

BES O3

E. SZÁLLÁS¹, G. KOVÁCS², O. ORAVECZ^{1,2}, A. FODOR¹, E. STACKEBRANDT³

Phylogenetic analysis and symbiotic relations of *Photorhabdus* and *Xenorhabdus*

¹Department of Genetics, ²Department of Microbiology, Eötvös L. University, Budapest, Hungary, ³DSMZ, Braunschweig, Germany

15.45 – 16.00	Coffee break
16.00 – 16.15	BES O4 Cs. DOBOLYI ¹ , <u>I. KERESZTÉNYI</u> ² Studies on availability of microbiological ecotoxicological methods in the biodegradation of hydrocarbons in aqueous phase ¹ Department of Microbiology, Gödöllő University of Agricultural Science, Gödöllő, ² Hungarian Oil and Gas Co., Research and Development, Százhalombatta, Hungary
16.15 – 16.30	BES O5 <u>E. TÓTH</u> , K. MÁRIALIGETI, L. HAVASI, I. S. MOKHTAR Comparative studies on the bacteriology of wound myiasis of sheep caused by <i>Wohlfahrtia magnifica</i> Department of Microbiology, Eötvös L. University, Budapest, Hungary
16.30 - 16.45	BES O6 <u>A. K. BORSODI</u> ¹ , A. MICSINAI ¹ , I. MIKLÓS ² , O. ORAVECZ ¹ , Cs. ROMSICS ¹ Bacterial communities participating in the biodegradation of <i>Phragmites</i> rhizomes ¹ Department of Microbiology, ² Department of Botany, Eötvös L. University, Budapest, Hungary
16.45 – 17.00	BES O7 <u>E. L. ZDOROVENKO</u> ^{1,2} , Yu. A. KNIREL ¹ , V. V. OVOD ³ Structures of O-polysaccharide chains of <i>Pseudomonas syringae</i> pv. <i>garcae</i> LPS ¹ N.D. Zelinsky Institute of Organic Chemistry, Russian Academy of Sciences, Moscow, Russia, ² Taras Shevchenko Kiev University, Kiev, Ukraine, ³ Institute of Medical Technology, University of Tampere, Tampere, Finland
<i>Bacterial Biodiversity, General and Molecular Ecology and Systematics Session – Poster Discussion</i> (Corridor in front of the Lecture Halls)	
17.00 – 18.00	Moderator: Cs. DOBOLYI
	BES P1 <u>A. GATTINGER</u> , L. ZELLES, J. C. MUNCH Characterisation of methanogenic and methanotrophic microorganisms in

agricultural soils by phospholipid analysis

GSF - National Research Center for Environment and Health, Institute of Soil Ecology, Neuherberg, Germany

BES P2

M. MUELLER¹, U. BEHRENDT¹, P. LENTZSCH¹, J. KIESEL²

Characterisation of bacterial communities from the phyllosphere of crop plants

¹ZALF e.V., Institute of Microbial Ecology and Soil Biology, ²Institute of Landscape Modelling 2, Müncheberg, Germany

BES P3

A. FÜZI¹, Zs. LANGÓ¹, L. G.-TÓTH², I. MUSKÓ²

Bacteriological data of the molluscs and the planktonic crustaceans of Lake Balaton

¹Department of Microbiology, Eötvös L. University, Budapest, ²Balaton Limnological Research Institute, Tihany, Hungary

BES P4

G. DIÓSI, L. G. GAZSÓ, GY. FARKAS

Study of microorganisms and biofilm development in connection with nuclear waste management

National Research Institute for Radiobiology and Radiohygiene, Budapest, Hungary

BES P5

E. M. OTT¹, Th. MÜLLER²

Bacteriocins of plant-associated enterococci

¹Institute of Ecologically Compatible Animal Husbandry, University of Rostock, Rostock, ²Institute of Microbial Ecology and Soil Biology, Centre for Agricultural Landscape and Land Use Research Müncheberg, Paulinenaue, Germany

BES P6

K. SZABÓ¹, É. ÁCS¹, É. PÁPISTA², K. T. KISS³, S. BARRETO¹, J. MAKK¹, B. BESZTERI¹

Phytoplankton and periphyton investigations in Soroksár Danube

¹Department of Microbiology, Eötvös L. University, Budapest, ²North-Hungarian Waterworks, Salgótarján, ³Hungarian Danube Research Station, Hungarian Academy of Sciences, Göd, Hungary

BES P7

B. BESZTERI, É. ÁCS, J. MAKK, G. KOVÁCS

Application of molecular methods in diatom taxonomy

Department of Microbiology, Eötvös L. University, Budapest, Hungary

BES P8

M. LEBUHN^{1,2}, W. ACHOUAK², O. BERGE¹, M. SCHLOTTER¹, A. HARTMANN¹, T. HEULIN²

Polyphasic taxonomy of *Ochrobactrum* spp. isolates from environmental samples

¹DSV-DEVM, Laboratoire d'Ecologie Microbienne de la Rhizosphère, CNRS-CEA, CEA Cadarache, St. Paul Léz Durance, France, ²GSF-National Center for Environment and Health, Institute of Soil Ecology, Neuherberg, Germany

BES P9

G. DARABOS

Bacteriological investigations on soil cover of karstic areas

Department of Physical Geography, Eötvös Loránd University, Budapest, Hungary

BES P10

A. LAUKOVÁ¹, P. JURIŠ², S. CZIKKORVÁ¹, Z. VASILKOVÁ², M. MAREKOVÁ³, I. KRUPICER²

Inhibitory effect of enterocins against hygienic important bacteria in the cattle and pig slurry environment

¹Institute of Animal Physiology, ²Parasitological Institute, Slovak Academy of Sciences, ³Institutie of Medical Chemistry and Biochemistry, Medical Faculty, University of P. J. Šafárik, Košice, Slovakia

BES P11

D. ELHOTTOVÁ¹, J. TRÍSKA²

GC-MS/MS detection of poly- β -hydroxyalkanoates (PHA) as prokaryotic storage compounds

¹Institute of Soil Biology, ²Institute of Landscape Ecology AS CR, České Budějovice, Czech Republic

BES P12

E. BÖSZÖRMÉNYI, K. LENGYEL, H. PAMJAV, E. SZÁLLÁS, A. FODOR

Gnotobiological analysis of *Heterohabditis/Photorhabdus* symbiotic

complexes

Department of Genetics, Eötvös L. University, Budapest, Hungary

*Bacterial Pathogens and Pathogenesis of Medical and Veterinary Importance Session –
Lectures
(Red Lecture Hall)*

14.30 –
16.30

Chairmen: H. U. BERTSCHINGER, R. ROSENGARTEN

14.30 –
14.50

BPM O1

H. U. BERTSCHINGER¹, E. MEIJERINK², P. VÖGELI²

Prevention of infectious diseases of animals through breeding for genetic resistance

¹Institute of Veterinary Bacteriology, University of Zürich, ²Institute of Animal Science, Swiss Federal Institute of Technology, Zürich, Switzerland

14.50 –
15.10

BPM O2

H. KARCH, W. BRUNDER, H. SCHMIDT

New discoveries in molecular biology of enterohaemorrhagic *Escherichia coli* O157

Institute for Hygiene and Microbiology, University of Würzburg, Germany

15.10 –
15.30

BPM O3

M. AWAD-MASALMEH

Virulence factors of VTEC bacteria isolated from animals, meat and meat products

II. Medical Clinic for Ruminants and Swine's, Veterinary University, Vienna, Austria

15.30 -
15.45

Coffee break

15.45 –
16.00

BPM O4

I. TÓTH¹, Zs. RUZSICS², V. KARCAGI³, B. NAGY¹

Rifampicin – resistance associated mutation in *fliC* flagellar gene of *E. coli* O157:H7

¹Veterinary Medical Research Institute, Hungarian Academy of Sciences, ²“B. Johan” National Centre for Epidemiology, ³Center for Public Health, Budapest, Hungary

16.00 –
16.15

BPM O5

L. E. HÖLZLE, M. M. WITTENBRINK

Molecular characterisation of chlamydiae from swine

Institute of Veterinary Bacteriology, University of Zürich, Switzerland

*Bacterial Pathogens and Pathogenesis of Medical and Veterinary Importance Session –
Poster Discussion
(Corridor in front of the Lecture Halls)*

16.30 –
18.00

Moderator: I. TÓTH

BPM P1

R. NEMCOVÁ, A. BOMBA, S. GANCARCIKOVÁ, R. HERICH, P. GUBA

Effect of administration of lactobacilli and fructooligosaccharides on the fecal microflora in weaning piglets

Research Institute of Veterinary Medicine, Kosice, Slovak Republic

BPM P2

E. SZABÓ, A. SKEDSMO, E. PÁTRI, L. EMÖDY, T. PÁL

The occurrence of curly fimbriae on enterotoxigenic *Escherichia coli*

Department of Medical Microbiology and Immunology, University Medical School, Pécs, Hungary

BPM P3

Gy. SCHNEIDER, D. SZAKÁL, T. PÁL

Detection of enterohaemorrhagic *Escherichia coli* serotype O157 with colony blot technique

Department of Medical Microbiology and Immunology, University Medical School, Pécs, Hungary

BPM P4

Z. PÉTERFI, B. KOCSIS

Optimisation of ELISA test used for detection of serological cross-reaction between lipopolysaccharides

Department of Medical Microbiology and Immunology, University Medical School, Pécs, Hungary

BPM P5

Cs. MISKOLCI¹, I. LABÁDI², T. KURIHARA³, N. MOTOHASHI⁴, J.

MOLNÁR¹

G-C rich regions of plasmid DNA can be the target in antiplasmid effect of phenothiazines

¹Institute of Microbiology, “Albert Szent-Györgyi” University Medical School, Szeged, Hungary, ²Department of Inorganic and Analytical Chemistry, Faculty of Science, Josai University, Sakadoshi, Saitama, ³Meiji College of Pharmacy, Tanashi-si, Tokyo, Japan

BPM P6

M. HERPAY, É. CZIRÓK, I. GADÓ, H. MILCH

Laboratory strategy in diagnosis of Shiga toxin producing *Escherichia coli* in Hungary

“B. Johan” National Center for Epidemiology, Budapest, Hungary

BPM P7

K. TÖRŐ¹, Zs. CSUKÁS², L. TÓTH¹, F. ROZGONYI²

Combined effects of pre/postnatal risk factors and microbiological agents in sudden infant death

¹Institute of Forensic Medicine, ²Institute of Microbiology, “Semmelweis” University Medical School, Budapest, Hungary

BPM P8

Zs. CSUKÁS¹, F. ROZGONYI¹, K. TÖRŐ², I. JANKOVICS³

Microbiological study among SIDS victims

¹Institute of Microbiology, ²Institute of Forensic Medicine, “Semmelweis” University Medical School, ³“Johan Béla” National Center for Epidemiology, Budapest, Hungary

Medical Veterinary and Plant Virology Session – Lectures
(Green Lecture Hall)

14.30 –
18.00

Chairmen: M. DEGRÉ, Gy. SZŰCS

14.30 –
15.00

APV O1

S. BELÁK

Molecular epizootiology of pestiviruses

Section for Research and Development, Department of Virology, The National Veterinary Institute, Uppsala, Sweden

15.00 –
15.15

APV O2

K. SZARKA, Gy. VERESS, J. KÓNYA, L. GERGELY

p53Arg codon 72 homozygous genotype – a genetic risk factor in human papillomavirus associated cervical cancer?

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

15.15 –
15.30

APV O3

O. ZORMAN-ROJS¹, B. FILIPIC², M. CERNE¹

An attempt to isolate field strains of a very virulent Infectious Bursal Disease Virus on chicken embryonal fibroblasts

¹Institute for Health Care of Poultry, Veterinary Faculty, ²Institute of Microbiology and Immunology, Ljubljana, Slovenia

15.30 –
15.45

APV O4

J. RAJČÁNI, I. VOJVODOVÁ, I. ORAVCOVÁ, M. KÚDELOVÁ, J. KOŠOVSKÝ, J. MATIS

Characterisation of strain HSZP of herpes simplex virus type 1 (HSV 1)

Institute of Virology, Slovak Academy of Sciences, Bratislava, Slovakia

15.45 –
16.00

APV O5

D. SALAMON¹, M. TAKÁCS², S. MYÖHANEN³, Z. MARCSEK⁴, Gy. BERENCSEI², J. MINAROVITS⁵

Methylation analysis of the latent origin of DNA replication (*oriP*) in Epstein-Barr virus genomes

¹2nd Department of Pathology, Semmelweis Medical University, ²Division of Virology, National Center for Epidemiology, Budapest, Hungary, ³Department of Biochemistry and Biotechnology, University of Kuopio, Kuopio, Finland, ⁴National Center for Hygiene, ⁵Microbiological Research Group, National Center for Epidemiology, Budapest, Hungary

16.00 –
16.30

Coffee break

16.30 –
16.45

APV O6

D. VÖDRÖS^{1,3}, R. THORSSTENSSON², G. BIBERFELD², E. M. FENYŐ¹

Co-receptor usage of sequential simian immunodeficiency virus (SIVsm) isolates from cynomolgus monkeys with progressive disease

¹Microbiology and Tumorbiology Center, Karolinska Institutet, ²Swedish Institute for Infectious Disease Control, Stockholm, Sweden, ³Microbiological Research Group, National Center for Epidemiology, Budapest, Hungary

16.45 –
17.00

APV O7

L. PALKOVICS¹, N. KARAMOVA², D. PRIBÉK³, E. BALÁZS¹

Changes on the 5' noncoding region of plum pox virus in connection with symptom development

¹Agricultural Biotechnology Center, Gödöllő, Hungary, ²Kazan State University, Kazan, Tatarstan, ³Plant Protection Institute, Budapest, Hungary

17.00 –
17.15

APV O8

C. ROS, S. BELÁK

Bovine herpesvirus types 1 and 5, caprine, cervine and rangiferine herpesviruses types 1: studies of genetic relationship and improved molecular methods for detection and identification

Department of Virology, The National Veterinary Institute, Uppsala, Sweden

17.15 –
17.30

APV O9

K. NAGY, B. KEMÉNY, A. HORVÁTH

CCR5 Δ 32 deletion affects course of disease in HHV-8 infected asymptomatic HIV patients

National Institute of Dermato-Venerology, Budapest, Hungary

17.30 –
17.45

APV O10

I. MIHÁLY¹, L. TELEGDY², E. IBRÁNYI³, A. LUKÁCS¹, L. RÓKUSZ⁴, É. BÁNKUTI¹, J. DÓCZY¹

Features of hepatitis C infection in personnel involved directly in health care

¹Virology Laboratory, ²Internal Department III., ³Internal Department IV., St. László Hospital for Infectious Diseases, ⁴Internal Department, Hospital of Defence Forces, Budapest, Hungary

18.00 –
19.00

**GENERAL ASSEMBLY OF THE HUNGARIAN SOCIETY FOR
MICROBIOLOGY
(Green Lecture Hall)**

20.30 –

RECEPTION at the MUSEUM SHIP “KOSSUTH”

Tuesday, August 31

7.00 – 8.00	<i>Breakfast</i>
8.00 -	<i>Registration</i>
8.30 – 13.00	MORNING SESSIONS
<i>Agricultural and Food Microbiology Session – Poster Discussion</i>	
(Corridor in front of the Lecture Halls)	
8.30 – 9.30	<i>Moderator: I. KISS</i>
	AFM P12
	<u>M. MAREKOVÁ</u> ¹ , A. LAUKOVÁ ² , I. F. NES ³
	Study of bacteriocin-like activity produced by environmental enterococcal strains
	<small>¹Institute of Medical Chemistry and Biochemistry, MF UPJS, ²Institute of Animal Physiology, SAS, Kosice, Slovakia, ³Laboratory of Microbial Gene Technology, NLH, As, Norway</small>
	AFM P13
	<u>F. DELAŠ</u> ¹ , S. DURAKOVIC ¹ , I. DELAŠ ² , B. RADIC ³
	Relationship between biomass synthesis and ochratoxin A (OTA) production in mould <i>Aspergillus ochraceus</i> NRRL 3174 grown on a soil substrate in pure and mixed culture
	<small>¹Faculty of Food Technology and Biotechnology, ²School of Medicine, ³Institute for Medical Research and Occupational Health, Zagreb, Croatia</small>
	AFM P14
	<u>L. A. PASICHNYK</u> , R. I. GVOZDYAK, S., F. KHODOS
	Bacterial microflora of seeds and growing wheat plants
	<small>Zabolotny Institute of Microbiology and Virology, Kiev, Ukraine</small>
	AFM P15
	<u>T. BINTSIS</u> ¹ , R. DAVIES ¹ , E. LITOPOULOU-TZANETAKI ² , R. K. ROBINSON ¹
	Microbiology of Feta cheese brine
	<small>¹The University of Reading, Department of Food Science and Technology, Whiteknights, Reading, UK, ²Laboratory of Dairy Technology, Faculty of Agriculture, Aristotle University of Thessaloniki, Thessaloniki,</small>

Greece

AFM P16

I. JEVCŠÁK¹, B. BIRÓ², H. E. A. F. BAYOUMI HAMUDA¹, M. KECSKÉS¹

PGPR effect and herbicide sensitivity of some pseudomonads depending on their origin and plant hosts

¹Agricultural-, Environmental Microbiology and Soil Biotechnology Ph.D. Subprogram, Gödöllő University of Agricultural Sciences, Budapest, ²Research Institute for Soil Science and Agricultural Chemistry, Hungarian Academy of Sciences, Budapest, Hungary

AFM P17

I. VIDÁCS¹, G. KISKÓ²

DSC measurements of sporeforming bacterium *Bacillus cereus* T

¹Department of Microbiology, Central Food Research Institute, ²University of Horticulture and Food Industry, Budapest, Hungary

AFM P18

S. FARKAS¹, Gy. GUNICS², A. HEGEDŰS³, M. KECSKÉS¹

Susceptibility of the *Rhizobium* and *E. coli* strains to different antibiotics

¹Agricultural-, Environmental Microbiology and Soil Biotechnology Ph.D. Subprogram, Gödöllő University of Agricultural Sciences, Budapest, ²Albert Szent-Györgyi Medical University, Faculty of Health Sciences, ³Teachers Training College Gyula Juhász, Szeged, Hungary

AFM P19

A. HEGEDŰS¹, H. E. A. F. BAYOUMI HAMUDA², M. KECSKÉS²

Enhanced growth of gerbera plants in the presence of *Trichoderma* spp. Inoculates

¹„Juhász Gyula” Teachers Training College, Szeged, ²Agricultural-, Environmental Microbiology and Soil Biotechnology Ph.D. Subprogram, Gödöllő University of Agricultural Sciences, Budapest, Hungary

Agricultural and Food Microbiology Session – Lectures

(Yellow Lecture Hall)

9.30 – 11.00

Chairmen: V. KRISTUFEK, E. JAKUCS

9.30 – 10.00

AFM O9

CED REES, CER DODD, P.J. HILL, W. M. WAITES

Development and use of techniques for studying microorganisms in situ in natural and man-made environments

Division of Food Science, Sutton Bonington Campus, University of Nottingham, Loughborough, Leics., UK

10.00 – 10.15 AFM O10

Gy. OROS

Acquired tolerance to benomyl modifies developmental stage response of *Botrytis cinerea* Pers. to various chemicals

Plant Protection Institute, Hungarian Academy of Sciences, Budapest, Hungary

10.15 – 10.30 AFM O11

J. BECZNER¹, I. VIDÁCS¹, J. TELEGDI², Gy. KANYÓ-PRINCES³

Bacterial attachment and growth on surfaces in the poultry processing industry

¹Microbiological and Postharvest Biology Department, Central Food Research Institute, ²Corrosion Chemistry Department, Central Research Institute for Chemistry, Hungarian Academy of Sciences, Budapest, ³Bábolna Poultry Processing Plant, Győr, Hungary

10.30 – 10.45 AFM O12

R. BOŽ ANIC ¹, I. ROGELJ², L. J. TRATNIK¹

The influence of inulin addition on sensory and microbiological quality of fermented beverages from cow's and goat's milks

¹Faculty of Food Technology and Biotechnology University of Zagreb, Zagreb, Croatia, ²Zootechnical Department, Biotechnical Faculty, University of Ljubljana, Domzale, Slovenia

10.45 – 11.00 AFM O13

Z. NAÁR¹, M. KECSKÉS²

Co-existence of different species of *Trichoderma* genus in various soil types

¹Department of Botany, Eszterházy Károly College, Eger, ²Agricultural-, Environmental Microbiology and Soil Biotechnology Ph.D. Subprogram, Gödöllő University of Agricultural Sciences, Budapest, Hungary

11.00 – 11.15 Coffee break

11.15 – 12.30

Chairmen: Th. MÜLLER. Gy. OROS

11.15 – 11.30 AFM O14

E. JAKUCS

***Thelephoraceae*-mycorrhizae in Hungarian *Populus*-forests**

Department of Plant Anatomy, Eötvös Loránd University, Budapest, Hungary

11.30 – 11.45 AFM O15

E. B. GÓRSKA¹, S. RUSSEL¹, J. LABETOWICZ²

The occurrence of mesophilic, cellulolytic bacilli in typical lessive soil under differentiated mineral and organic fertilization conditions

¹Department of Agricultural Microbiology, ²Department of Agricultural Chemistry, Warsaw Agricultural University, Warsaw, Poland

11.45 – 12.00 AFM O16

K. RIGÓ¹, J. TÉREN², J. VARGA¹

Ochratoxin contamination and decomposition caused by *Aspergillus* species

¹Department of Microbiology, Attila József University, Szeged, ²Animal Health and Food Control Station, Szeged, Hungary

12.00 – 12.15 AFM O17

E. B. GÓRSKA¹, S. RUSSEL¹, B. TUDEK²

Effect of growth conditions on cellulolytic activity of *Bacillus circulans*

¹Department of Agricultural Microbiology, Warsaw Agricultural University, ²Department of Molecular Biology, Institute of Biochemistry and Biophysics, Warsaw, Poland

12.15 – 12.30 AFM O18

H. E. A. F. BAYOUMI HAMUDA¹, A. KHALIF², L. KÖDÖBÖCZ¹,
M. KECSKÉS¹

Effect of dicyandiamide, nitrapyrin, 2,4-D and thiourea on the growth and symbiosis of *Vicia faba* - *Rhizobium leguminosarum* bv. *viciae*

¹Agricultural-, Environmental Microbiology and Soil Biotechnology Ph.D. Subprogram, Gödöllő University of Agricultural Sciences, Budapest, ²Environmental Microbiology M.Sc. Subgroup, Gödöllő University of Agricultural Sciences, Budapest, Hungary

*Bacterial Biodiversity, General and Molecular Ecology and Systematics Session –
Poster Discussion*

(Corridor in front of the Lecture Halls)

8.30 – 9.30

Moderator: A. GATTINGER

BES P13

M. LEBUHN^{1,2}, W. ACHOUAK², M. SCHLOTER¹, O. BERGE², A. HARTMANN¹, T. HEULIN²

Geno- and phenotypic diversity of *Ochrobactrum* sp. isolates from soil and wheat roots

¹GSF-National Center for Environment and Health, Institute of Soil Ecology, Neuherberg, Germany, ²DSV-DEVM, Laboratoire d'Ecologie Microbienne de la Rhizosphère, CNRS-CEA, CEA Cadarache, St. Paul Léz Durance, France

BES P14

I. S. MOKHTAR, E. TÓTH, K. MÁRIALIGETI

Changes in the anaerobic bacterial community structure of skin in ewes due to *Wohlfahrtia* myiasis

Department of Microbiology, Eötvös L. University, Budapest, Hungary

BES P15

M. N. RESKÓNE¹, A. BORSODI²

Long-term monitoring of sulphur cycle associated microbial communities in Lake Velencei

¹Central Danubian Environmental Protection Agency, Székesfehérvár, ²Department of Microbiology, Eötvös L. University, Budapest Hungary

BES P16

A. L. KANSOH, A. M-ALI, A. A. EL-GAMMAL

Xylanolytic activities of *Streptomyces* sp.

Microbial Chemistry Department, National Research Centre, Dokki, Cairo, Egypt

BES P17

M. A. DOW

Validity of Gram reaction of fresh environmental isolates

Department of Microbiology, Eötvös L. University, Budapest, Hungary

BES P18

J. PAPP

Microbiota on leaves of oats grown in lead and zinc mine spoils

Department of Plant Physiology and Microbiology, Babes-Bolyai University, Cluj-Napoca, Romania

BES P19

M. VARGA, G. SZABÓ, K. MÁRIALIGETI

Investigation of the decomposition of atrazine in a bank-wall filtered well model system

Department of Microbiology, Eötvös L. University, Budapest, Hungary

BES P20

H. M. RIFAAT, K. MÁRIALIGETI, G. KOVÁCS

Comparative analysis of actinomycete communities of cattail and papyrus rhizosphere

Department of Microbiology, Eötvös L. University, Budapest, Hungary

BES P21

B. IMZILN

Incidence of mesophilic *Aeromonas* within aquatic environments in Marrakech, Morocco

Microbiology Laboratory, Department of Biology, Faculty of Sciences Semlalia, Cadi Ayyad University, Marrakech, Morocco

BES P22

A. HALBRITTER¹, V. KRISTUFEK²

Milestones of microbial ecology and the key personalities behind

¹Department of Microbiology, Eötvös L. University, Budapest, Hungary, ²Institute of Soil Biology, Czech Academy of Science, Ceske Budejovice, Czech Republic

BES P23

G. FURGANI, D. TRIGA, H. PAMJAV, E. SZÁLLÁS, A. FODOR

Gnotobiological analysis of *Steinernema/Xenorhabdus* symbiotic complexes

Department of Genetics, Eötvös L. University, Budapest, Hungary

BES P24

A. MICSINAI, A. HORVÁTH, A.K. BORSODI

The bacterial communities inhabiting the rhizomes of healthy and degrading reed stands

Department of Microbiology, Eötvös L. University, Budapest, Hungary

BES P25

T. HANCZAR¹, R. CSÁKI¹, L. BODROSSY^{1,2}, J. COLIN MURRELL³,
K. L. KOVÁCS^{1,2}

Hydrogenases in methanotrophic bacteria

¹Department of Biotechnology, University of Szeged, ²Institute of Biophysics, Biological Research Centre, Szeged, Hungary, ³Department of Biological Sciences, University of Warwick, Coventry, UK

BES P26

M. K. MASSAOUD, A. KOVÁCS, B. BLAHA, A. FODOR

Morphological characterization of phase variants of *Photorhabdus luminescens*

Department of Genetics, Eötvös University, Budapest, Hungary

Bacterial Biodiversity, General and Molecular Ecology and Systematics Session – Lectures (Blue Lecture Hall)

9.30 – 12.30

Chairmen: F. A. RAINEY, A. FODOR

9.30 – 10.00 **BES O8**

P. SCHUMANN¹, I. GROTH², E. STACKEBRANDT¹

New genera of actinomycetes with menaquinone MK-8(H₄) and lysine- or ornithine-containing peptidoglycan

¹DSMZ - Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH, Braunschweig, ²Hans-Knöll-Institut für Naturstoff-Forschung e. V., Jena, Germany

10.00 – 10.15 **BES O9**

G. KOVÁCS, M. NIKOLAUSZ, A. HALBRITTER, I. VILLÁNYI, H. M. RIFAAT, K. MÁRIALIGETI

Bacterial communities of cattail (*Typha angustifolia*) rhizoplane

Department of Microbiology, Eötvös L. University, Budapest, Hungary

10.15 – 10.30 **BES O10**

A. VÖLGYI¹, T. FARKAS², A. FODOR¹, S. FORST³

Phospholipid membrane fluidity and fatty acid profile in natural phase variants, transposon-induced, deletion and complemented

**phase-variant mutant of the entomopathogenic bacterium
*Xenorhabdus nematophilus***

¹Department of Genetics, Eötvös L. University, Budapest, ²Institute of Biochemistry, Biological Research Center, Hungarian Academy of Sciences, Szeged, Hungary, ³University of Wisconsin-Milwaukee, Milwaukee, Wisconsin, USA

10.30 – 10.45 **BES O11**

J. MAKK, É. ÁCS, B. BESZTERI, O. ORAVECZ, K. SZABÓ

**Investigation of diatoms associated bacterial communities from
Danubian biofilms**

Department of Microbiology, Eötvös L. University, Budapest, Hungary

10.45 – 11.00 **BES O12**

T. PÁL

**Experiences obtained from the microbiological examinations of
activated sludge sewage treatment plants of Hungary**

BIOTOP Bt. Budapest

11.00 – 11.15 **Coffee break**

11.15 – 11.30 **BES O13**

M. NIKOLAUSZ, K. MÁRIALIGETI, O. ORAVECZ, Cs. ROMSICS

**Changes in the composition of eel gill bacterial communities as a
function of eel nematode infection**

Department of Microbiology, Eötvös L. University, Budapest, Hungary

11.30 – 11.45 **BES O14**

H. PAMJAV¹, D. TRIGA¹, E. SZÁLLÁS¹, A. FODOR¹, Zs. BUZÁS²

**PhastSystem PAGE PCR-RFLP analysis: new molecular technique
for identification and phylogenetic analysis of entomopathogenic
nematode – symbiotic bacteria, *Photorhabdus* and *Xenorhabdus***

¹Department of Genetics, Eötvös L. University, Budapest, ²Agricultural Biotechnology Center, Gödöllő, Hungary

11.45 – 12.00 **BES O15**

M. K. KILANI¹, A. H. KANJO²

Bacterial load of the air of Budapest

¹Department of Microbiology, Eötvös L. University, ²State Public Health Service, Budapest, Hungary

12.00 – 12.15 **BES O16**

G. M. ZDOROVENKO¹, Yu. A. KNIREL², L. M. YAKOVLEVA¹

Composition and structure of lipopolysaccharide macromolecule as taxonomic criteria in classification of *Pseudomonas syringae*

¹D. K. Zabolotny Institute of Microbiology and Virology, National Academy of Sciences of Ukraine, Kiev, Ukraine, ²N.D. Zelinsky Institute of Organic Chemistry, Russian Academy of Sciences, Moscow, Russia

Bacterial Pathogens and Pathogenesis of Medical and Veterinary Importance Session – Poster Discussion

(Corridor in front of the Lecture Halls)

8.30 – 9.30

Moderator: M. KONKOLY THEGE

BPM P9

Gy. GUNICS¹, S. FARKAS¹, N. MOTOHASHI², A. SHAH³, M. KAWASE³, S. SAITO⁴, J. MOLNÁR¹

The modification of antibiotic resistance in some Gram negative bacteria

¹Department of Microbiology, “Albert Szent-Györgyi” University Medical School, Szeged, Hungary, ²Meiji Pharmaceutical University, Kiyose, Tokyo, Japan, ³Department of Chemistry, Saurashtra University, Rajkot, India, ⁴Faculty of Pharmaceutical Sciences, Josai University, Sakado, Saitama, Japan

BPM P10

K. ANTMANN¹, P. ANDERLIK², Á. GHIDÁN², F. ROZGONYI²

Characterisation of *Staphylococcus aureus* strains isolated from air and patients during a hospital surveillance

¹Institute of Public Health, ²Institute of Microbiology, “Semmelweis” University Medical School, Budapest, Hungary

BPM P11

Á. GHIDÁN¹, Cs. JENEY², K. CSISZÁR², F. ROZGONYI¹

Detection of vancomycin resistance in *Enterococcus faecalis* using the PCR method

¹Institute of Microbiology, “Semmelweis” University Medical School, Budapest, ²Public Health Station of Nógrád County, Salgótarján, Hungary

BPM P12

M. ZUTIC¹, Z. LEPSANOVIC², D. KRNJAIĆ³, R. ASANIN³

Antimicrobial susceptibility and plasmid profiles of *Actinobacillus*

***pleuropneumoniae* strains isolated from swine**

¹Veterinary Institute, ²Institute of Microbiology VMA, ³Department of Microbiology, Faculty of Veterinary Medicine, Belgrade, Yugoslavia

BPM P13

J. PÁSZTI¹, I. GADÓ¹, V. G. LÁSZLÓ², B. NAGY³, J. KIRÁLY¹, P. KOPPÁNY¹, L. ORBÁN¹, H. MILCH¹

Occurrence and spread of multiple resistant *Salmonella enterica* sv. *Typhimurium* strains in Hungary

¹“B. Johan” National Center for Epidemiology, ²National Food Investigation Institute, ³Veterinary Medical Research Institute, Hungarian Academy of Sciences, Budapest, Hungary

Bacterial Pathogens and Pathogenesis of Medical and Veterinary Importance Session – Lectures

(Red Lecture Hall)

9.30 – 11.10

Chairmen: C. L. TURNBOUGH JR., F. ROZGONYI

9.30 – 9.55 **BPM O6**

C. L. TURNBOUGH JR.

Gene regulation by reiterative transcription and transcriptional start site switching

Department of Microbiology, University of Alabama, Birmingham, Alabama, USA

9.55 – 10.10 **BPM O7**

O. BENEDEK, J. KNURR, B. VINSON, C. L. TURNBOUGH JR.

Identification of peptide ligands that bind *Bacillus subtilis* spores

Department of Microbiology, University of Alabama, Birmingham, USA

10.10 – 10.25 **BPM O8**

B. KOCSIS, I. KUSTOS, Z. PÉTERFI

Isolation and characterisation of a *Shigella sonnei* absolute rough mutant

Department of Medical Microbiology and Immunology, University Medical School, Pécs, Hungary

10.25 – 10.40 **BPM O9**

Z. TIGYI, T. PÁL

Relationship between the sensitivity to *Shigella sonnei* colicin type 7

**and the presence of the invasion plasmid in enteroinvasive
*Escherichia coli***

Department of Medical Microbiology and Immunology, University Medical School,
Pécs, Hungary

10.40 – 10.55 **BPM 010**

I. KUSTOS¹, V. TÓTH^{1,2}, F. KILÁR³, B. KOCSIS¹, L. EMŐDY¹

**Investigations of outer membrane components of *Proteus penneri*
strains by electrophoretic methods**

¹Department of Medical Microbiology and Immunology, ²Department of Stomatology, ³Central Research
Laboratory, University Medical School, Pécs, Hungary

10.55 – 11.10 **Coffee break**

11.10 – 12.30

Chairmen: W. HRYNIEWICZ, E. NAGY

11.10 – 11.30 **BPM 011**

W. HRYNIEWICZ, A. SKOCZYNSKA

**Characteristics of major clinical pathogens responsible for
meningitis in Poland**

National Reference Centre for Bacterial Meningitis, Sera and Vaccines Central
Research Laboratory, Warsaw, Poland

11.30 – 11.50 **BPM 012**

E. NAGY, J. SÓKI, E. FODOR, E. URBÁN, I. SZÓKE

Antimicrobial resistance in anaerobic bacteria

Department of Clinical Microbiology, “Albert Szent-Györgyi” University Medical
School, Szeged, Hungary

11.50 – 12.05 **BPM 013**

J. SZENTANDRÁSSY¹, M. NÉMEDI², E. TÓTH², D. SZABÓ³, Zs.
FILETÓTH⁴, Cs. JENEY³, F. ROZGONYI³

**SHV-5 extended spectrum β -lactamase producing *Klebsiella*
pneumoniae (ESBL-KP) in a perinatal intensive care unit (PICU) of
a Hungarian hospital**

¹Microbiological Laboratory, ²Perinatal Intensive Care Unit, “Géza Hetényi” County Hospital, Szolnok,
³Institute of Microbiology, “Semmelweis” University Medical School, ⁴Clinical Epidemiology Unit,
National Institute of Traumatology, Budapest, Hungary

12.05 – 12.20 **BPM 014**

K. LATKÓCZY, F. ROZGONYI

A comparative study on factors influencing the susceptibility of bacteria to trimethoprim/sulfamethoxazole combination

Institute of Microbiology, "Semmelweis" University Medical School, Budapest, Hungary

12.20 – 12.30 **BPM O15**

K. KAMOTSAY, I. DUNAY, Zs. CSUKÁS, K. LATKÓCZY, K. GLATZ, Zs. BEREK, F. ROZGONYI

Distribution and antibiotic susceptibility of blood culture isolates

Institute of Microbiology, "Semmelweis" University Medical School, Budapest, Hungary

*Pathogenesis, Taxonomy, Molecular Biology and Physiology of Yeasts and Fungi
Session – Lectures*

(Green Lecture Hall)

9.00 – 11.00

Chairmen: H. PRILLINGER, L. FERENCZY

9.00 – 9.30 **BYF O1**

H. PRILLINGER, W. SCHWEIGKOFER, K. LOPANDIC

Systematics of Asco- and Basidiomycota based on cell wall sugars, 18S rDNA sequences and urease activity

Institut für Angewandte Mikrobiologie, Universität für Bodenkultur, Wien, Austria

9.30 – 10.00 **BYF O2**

I. MIKLÓS¹, M. SIPICZKY^{1,2}

Characterisation of a *Schizosaccharomyces pombe* mutant strain, defective in cytokinesis

¹Department of Genetics, Kossuth Lajos University, ²Institute of Human Genetics, Medical University, Debrecen, Hungary

10.00 – 10.15 **BYF O3**

A. BOZSIK^{1, 2}, Á. GRALLERT¹, M. SIPICZKI^{1,2}

The cytological and genetical study of the dimorphic yeast *Schizosaccharomyces japonicus*

¹Department of Genetics, Kossuth Lajos University, Institute of Human Genetics, Medical University, Debrecen, Hungary

10.15 – 10.30 **BYF O4**

T. KRAMARENKO, H. KARP, A. IVASK, T. ALAMÄE

Glucose phosphorylating enzymes and sugar repression in methylotrophic yeast *Hansenula polymorpha*

Institute of Molecular and Cell Biology, University of Tartu, Tartu, Estonia

10.30 – 11.00 **Coffee break**

11.00 – 13.00

Chairmen: J. SUBIK, A. MARÁZ

11.00 – 11.30 **BYF O5**

A. J. CLUTTERBUCK

***Aspergillus* chromosomes, maps and sex**

Division of Molecular Genetics, Institute of Biomedical and Life Sciences, University of Glasgow, Scotland

11.30 – 12.00 **BYF O6**

J. ŠUBÍK

Mutational analysis of the regulatory protein Pdr3p involved in multiple drug resistance in fungi

Department of Microbiology and Virology, Faculty of Natural Sciences, Comenius University, Bratislava, Slovak Republic

12.00 – 12.15 **BYF O7**

J. ZALA

Antifungal drug susceptibility/resistance in the medical mycology

Mycological Department, "B. Johan" National Center for Epidemiology, Budapest, Hungary

12.15 – 12.30 **BYF O8**

L. MAJOROS, C. MISZTI, B. SZABÓ

Isolation and identification of *Candida albicans* and non-albicans *Candida* species from humans by traditional and new methods

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

12.30 – 12.45 **BYF O9**

R. DEÁK¹, A. MARÁZ¹, H. AARTS²

Discrimination of *Candida glabrata* and *C. guilliermondii* clinical

isolates by molecular typing

¹Department of Microbiology and Biotechnology, University of Horticulture and Food Industry, Budapest, Hungary, ²State University for Quality Control of Agricultural Products (RIKILT-DLO), Wageningen, The Netherlands

12.45 – 13.00 **BYF O10**

M. S. YOUSSEF

Mycopathological studies of *Tinea* diseases in Sohag Governorate, Egypt

Botany Department, Faculty of Science, South Valley University, Sohag, Egypt

13.00 – 14.00 *Lunch*

14.00 – 19.00

AFTERNOON SESSIONS

Agricultural and Food Microbiology Session – Lectures

(Yellow Lecture Hall)

14.00 – 15.15

Chairmen: R. I. GVOZDIAK, B. BIRÓ

14.00 – 14.15 **AFM O19**

J. STARÝ, A. LUKEŠOVÁ, A. NOVÁKOVÁ, V. KRIŠTUFEK

Interaction between oribatid mites (Acari: Oribatida) and soil microflora

Institute of Soil Biology, Academy of Sciences of the Czech Republic, České Budejovice, Czech Republic

14.15 – 14.30 **AFM O20**

T. SZILI-KOVÁCS¹, D. KLEIN²

Enforced N-immobilisation to accelerate secondary succession in sandy grassland

¹Research Institute for Soil Science and Agricultural Chemistry, Hungarian Academy of Sciences, Budapest, Hungary, ²Department of Microbiology, University of Colorado, Fort Collins, USA

14.30 – 14.45 **AFM O21**

T. PICEK¹, R. TYKVA², H. ŠANTRUČKOVÁ¹, M. SIMEK¹, B. PAVLU²

Glucose decomposition in soil after change of aeration status

¹Institute of Soil Biology AS CR and Faculty of Biological Sciences, University of South Bohemia, Ceske Budejovice, ²Institute of Organic Chemistry and Biochemistry AS CR, Prague, Czech Republic

14.45 – 15.00 AFM O22

L. MARILLEY¹, U. A. HARTWIG², M. ARAGNO¹

Influence of an elevated atmospheric CO₂ content on rhizobacterial populations beneath *Lolium perenne* and *Trifolium repens*

¹Laboratory of Microbiology, University of Neuchatel, ²Institute of Plant Sciences, Swiss Federal Institute of Technology, Zürich, Switzerland

15.15 – 15.30 Coffee break

15.30 – 16.45 *Chairmen: Z. FÁBRY, H. E. A. F. BAYOUMI HAMUDA*

15.30 – 15.45 AFM O23

Th. MÜLLER¹, E.-M. OTT²

Occurrence and possible ecological function of enterococci on forage grass

¹Institute of Microbial Ecology and Soil Biology, Centre for Agricultural Landscape and Land Use Research Müncheberg, Paulinenaue, ²Institute of Ecologically Compatible Animal Husbandry, University of Rostock, Rostock, Germany

15.45 – 16.00 AFM O24

I. J. HOLB

Influence of acidity in structure development of *Monilinia fructigena*

Plant Protection Department, Agricultural University of Debrecen, Debrecen, Hungary

16.00 – 16.15 AFM O25

R. I. GVOZDYAK, L. V. KABASHNA, L. A. PASICHYK, E. A. MAKARCHUK

Interaction between endophytic bacteria of wheat seeds and pathogens

Zabolotny Institute of Microbiology and Virology, Kiev, Ukraine

16.15 – 16.30 AFM O26

Á. OLÁH-ZSUPOSNÉ¹, J. KÁTAI², M. BESSENYEI²

The effect of amelioration on the quantity of soil bacteria and microbial activity of soil

¹Research Institute, Karcag, ²Department of Soil Science and Microbiology, Faculty of Agriculture, Debrecen Agricultural University, Debrecen, Hungary

16.30 - 1645 AFM O27

Á. OLÁH-ZSUPOSNÉ¹, J. KÁTAI², M. BESSENYEI²

The effect of cultivation on the amount of soil bacteria and some enzyme activity

¹Research Institute, Karcag, ²Department of Soil Science and Microbiology, Faculty of Agriculture, Debrecen Agricultural University, Debrecen, Hungary

16.45 – 17.15 **Coffee break**

17.15 – 18.00

Chairmen: S. RUSSEL, Z. NAÁR

17.15 – 17.30 **AFM O28**

B. A. EL-DEEB

Isolation and characterisation of bacterial strain which is able to utilise a molluscicide bayluscide as a sole source of carbon and nitrogen and evidence for the involvement of plasmid in bayluscide degradation

Botany Department, Faculty of Science, South Valley University, Sohag, Egypt

17.30 – 17.45 **AFM O29**

A. E. EL-KARAMITY

Response of some lentil cultivars to inoculation and spraying with molybdenum

Agronomy Department, Faculty of Agriculture, Minia University, Egypt

17.45 – 18.00 **AFM O30**

H. E. A. F. BAYOUMI HAMUDA¹, H. ABDORHIM², I. JEVCSÁK¹,
H. GODWAR², M. KECSKÉS¹

Ecotoxicological tests of Cd²⁺, Cu²⁺, Ni²⁺ and Pb²⁺ on the growth and symbiosis of *Vicia faba* - *Rhizobium leguminosarum* bv. *viciae*

¹Agricultural-, Environmental Microbiology and Soil Biotechnology Ph.D. Subprogram, ²Environmental Microbiology M.Sc. Subgroup, Gödöllő University of Agricultural Sciences, Budapest, Hungary

Agricultural and Food Microbiology Session – Poster Discussion

(Corridor in front of the Lecture Halls)

18.00 – 19.00

Moderator: I. KISS

AFM P20

M. A. ABDEL – SATER

Antagonistic interactions between fungal pathogens and leaf surface

fungi of onion

Botany Department, Faculty of Science, Assiut University, Assiut, Egypt

AFM P21

J. MÁTÉ¹, I. RIMÓCZI², I. LENTI¹

Mycorrhizal fungus relationships in the oak forests of the Bátorliget primordial marsh

¹Agricultural College Department, Gödöllő University of Agricultural Sciences, Nyíregyháza, ²University of Horticulture and Food Industry, Budapest, Hungary

AFM P22

A. L. KANSOH, Y. M. H. ABU-AYANA, F. F. ABDEL-MOHSEN

Evaluation of encapsulated copper salts or copper complexes by various types of vinyl polymers as fungicides

Microbial Chemistry Department, National Research Centre, Dokki, Cairo, Egypt

AFM P23

L. DURAKOVIĆ, Z. PETROVIĆ, F. DELAŠ, M. GLANCER, S. DURAKOVIĆ

Dehydroacetic acid and the newly synthesised Schiff base to control ochratoxin A accumulation

Faculty of Food Technology and Biotechnology, Zagreb, Croatia

AFM P24

Cs. HAJDÚ

Involvement of mono- and polysporic cultures of wild *Pleurotus* spp. in the breeding work

Korona Spawn Plant and Research Laboratory, Demjén, Department of Plant Physiology, University of Horticulture and Food Industry, Budapest, Hungary

AFM P25

J. GEML

Utilisation of wild isolates of *Agaricus* spp. In mushroom breeding programs

Korona Spawn Plant and Research Laboratory, Demjén, Hungary

(Red Lecture Hall)

14.30 – 17.00

Chairmen: V. TALESKI, J. MOLNÁR

14.30 – 14.50 **BPM O16**

V. TALESKI¹, T. L. HADFIELD², S. STOJKOVSKI¹

Human brucellosis in the Republic of Macedonia and current diagnostic possibilities

¹Department of Microbiology, Institute of Preventive Medical Care, Military Health Institution Centre, Skopje, Republic of Macedonia, ²Armed Forces Institute of Pathology (AFIP), Washington DC, USA

14.50 – 15.10 **BPM O17**

A. K. T. KIRSCHNER¹, A. FARNLEITNER², A. HERZIG³, G. KAVKA², S. KÖLBL⁴, B. VELIMIROV¹, T. ZECHMEISTER⁵

Determination of the potential toxical risk of botulism neurotoxin C1, responsible for the outbreak of avian botulism, and the relation to ecological variables of flat saltwater pools in the Austro-Hungarian National Park Neusiedler See – Seewinkel (Fertő Hanság)

¹Institut für Medizinische Biologie, Universität Wien, ²Institut für Wassergute des BAW, Wien, ³Biologische Station Neusiedler See, Illmitz, ⁴Institut für Virusseuchenbekämpfung, ⁵Institut für Allgemeine Biochemie, Vienna Biocenter, Wien, Austria

15.10 – 15.25 **BPM O18**

I. RYCHLIK¹, L. CARDOVA¹, A. SVESTKOVA¹, G. MARTIN², U. METHNER²

Interactions of stationary cultures of *Salmonella typhimurium* F98 and its defined mutants

¹Veterinary Research Institute, Brno, Czech Republic, ²Federal Institute for Health Protection of Consumers and Veterinary Medicine, Jena, Germany

15.25 – 15.40 **BPM O19**

U. METHNER, A. BERNDT, G. STEINBACH

Combination of vaccination and competitive exclusion to prevent *Salmonella* infection in chickens

Federal Institute for Health Protection of Consumers and Veterinary Medicine, Jena, Germany

15.40 – 15.55 **BPM O20**

Z. SZÉNÁSI¹, I. VERÉB¹, T. ENDO², K. YAGITA², E. NAGY¹

Detection of *Legionella* spp. in water samples from cooling towers and in clinical samples by the polymerase chain reaction (PCR)

¹Department of Clinical Microbiology, “Albert Szent-Györgyi” University Medical School, Szeged, Hungary, ²Department of Parasitology, National Institute of Infectious Diseases, Tokyo, Japan

15.55 – 16.10 **BPM O21**

D. SZAKÁL, T. PÁL

The effect of selective enrichment media on the growth of enteroinvasive *Escherichia coli*

Department of Medical Microbiology and Immunology, University Medical School, Pécs, Hungary

Bacterial Pathogens and Pathogenesis of Medical and Veterinary Importance Session – Poster Discussion

(Corridor in front of the Lecture Halls)

17.30 – 18.30

Moderator: B. KOCSIS

BPM P14

R. KISS, E. NAGY PAPP, Zs. FARAGÓ

Experiences by the use of rapid methods for hygienic and epidemiological connections in the course of food microbiological supervision and epidemiological surveillance of *Salmonella*

¹“Fodor József” National Centre of Public Health, Budapest

BPM P15

R. KISS¹, M. FÜZI², Cs. BOGNÁR³, M. FEDERIGHI⁴, C. MAGRAS⁴

Detection of viable but non-culturable microorganisms. Detection of *Campylobacter* by the use of acridine orange

¹“Fodor József” National Centre of Public Health, ²Public Health Laboratory Service, ³“Johan Béla” National Centre of Epidemiology, Budapest, Hungary, ⁴Veterinary University, Nantes, France

BPM P16

G. VÖRÖS, L. BAJNOK

Effect of *Bacillus toyoi* (ToyoCerin®) on the performance, mortality and aerob caecal flora of young rabbits kept in a large scale farm

PO-RA-VET Research and Development Ltd., Gödöllő, Hungary

BPM P17

Ž. CVETNIĆ¹, M. OCEPEK², B. KRT², H. KOVAČIĆ¹, K. BRLEK³, J.

TRSTENJAK³

Use of different tests in diagnosis of *Mycobacterium paratuberculosis* in infected cattle

¹Croatian Veterinary Institute, Zagreb, Croatia, ²School of Veterinary Medicine, Ljubljana, Slovenia, ³Farm of Dairy Cows "Varazdinka", Krzovljangrad, Croatia

BPM P18

K. J. HÁBER¹, M. TAKÁCS², A. NAGY¹, A. SZENDRŐI², P. DEZSŐ¹, Gy. BERENCSI², J. MINÁROVITS¹

Cloning and sequencing of mycobacteriophage DNAs

¹Microbiological Research Group, ²Department of Virology, "Johan Béla" National Center for Epidemiology, Budapest, Hungary

BPM P19

N. O. TIMOSHOK, N. I. GRABCHENKO, N. Ya. SPIVAK

Synergetic action of recombinant interferon - γ and tumour necrosis factor - α on the process of experimental *Staphylococcus* infection

Zabolothy Institute of Microbiology and Virology, National Academy of Sciences of Ukraine, Kiev, Ukraine

BPM P20

Z. SHERKO, E. GRABOCKA

The microbial quality of some kind of sausages on Tirana market

Institute of Public Health, Environment and Health Department, Food Microbiological Laboratory, Tirana, Albania

BPM P21

E. A. M. BORAS¹, R. KISS², G. KOVÁCS¹, K. MÁRIALIGETI¹

Isolation and characterisation of *Listeria* spp. from food and environmental sources

¹Department of Microbiology, Eötvös L. University, ²"Fodor József" National Centre for Public Health, Budapest, Hungary

BPM P22

A. H. KANJO

Our experience with Crystal identification system E/NF

Microbiology Laboratory, Árpád Hospital, Budapest, Hungary

BPM P23

A. MATOUG ALI¹, K. S. GHENGHESH¹, R. KISS²

Characterisation of aeromonads isolated from different sources in Hungary and Libya

¹Faculty of Medicine, Tripoli, Libya, ²"József Fodor" National Center of Public Health, National Institute of Food Hygiene and Nutrition, Budapest, Hungary

BPM P24

M. MATSUOKA¹, K. ENDOU¹, H. KOBAYASHI¹, M. INOUE², Y. NAKAJIMA¹

A plasmid that encodes three genes for resistance to macrolide antibiotics in *Staphylococcus aureus*

¹Division of Microbiology, Hokkaido College of Pharmacy, Otaru, Hokkaido, ²Department of Microbiology, Kitasato University, School of Medicine, Kitasato, Sagamihara, Kanagawa, Japan

BPM P25

I. STEINHAUSEROVA, K. FOJTIKOVA

Identification of *Campylobacter* spp. Isolated from Animals by Using Polymerase Chain Reaction

Department of Meat Hygiene and Technology, University of Veterinary and Pharmaceutical Sciences, Brno, Czech Republic

Medical Veterinary and Plant Virology Session – Lectures

(Green Lecture Hall)

14.00 – 17.00

Chairmen: S. BELÁK, J. BURGYÁN

14.00 – 14.15 APV O11

J. BURGYÁN¹, H. SZUTORISZ^{1,2}, Gy. BISZTRAY²

The replication and 3'-end repair of tobacco necrosis virus RNA have different structural and sequence requirements

¹Agricultural Biotechnology Center, Gödöllő, ²Department of Genetics and Plant Breeding, University of Horticulture and Food Industry, Budapest, Hungary

14.15 – 14.30 APV O12

A. BÁCSI¹, J. ARANYOSI², Z. BECK¹, J. SZABÓ¹, K. SZARKA¹, F. D.TÓTH¹

Syncytiotrophoblast cells are permissive to the complete replicative cycle of human cytomegalovirus by contact with placental

macrophage

¹Institute of Microbiology, ²Department of Obstetrics and Gynecology, University Medical School, Debrecen, Hungary

14.30 – 14.45 **APV O13**

J. SZABÓ¹, Z. BECK¹, É. CSOMÁN¹, X. LIU², I. ANDIRKÓ¹, J. KISS¹, A. BÁCSI¹, P. EBBESEN², F. D. TÓTH¹

Interactions between human immuno-deficiency virus type 1 (HIV-1) and human T-cell leukaemia-lymphoma virus type I (HTLV-I) in macrophages cultured in vitro: implications for *in vivo* pathogenesis

¹Institute of Microbiology, University Medical School, Debrecen, Hungary, ²Department of Virus and Cancer, The Danish Cancer Society, Aarhus, Denmark

14.45 – 15.00 **APV O14**

Gy. SZITTYA, J. BURGYÁN

Identification of host range determinant gene(s) in tombusviruses

Agricultural Biotechnology Center, Gödöllő, Hungary

15.00 – 15.15 **APV O15**

I. KISS¹, S. KECSKEMÉTI¹, J. TANYI¹, S. B. KLINGEBORN², S. BELÁK²

Studies on the invasion and distribution of feline coronaviruses in naturally and experimentally infected cats

¹Department of Virology, Veterinary Institute of Debrecen, Hungary, ²National Veterinary Institute, Uppsala, Sweden

15.00 – 15.30 **Coffee break**

15.30 – 15.45 **APV O16**

Cs. JENEY, O. DOBAY, B. BANIZS, É. ÁDÁM, I. NÁSZ

In the absence of epsilon-cop the human adenovirus type 5 regurgitates into the extracellular space

Institute of Microbiology, Semmelweis Medical University, Budapest, Hungary

15.45 – 16.00 **APV O17**

R. IZADPANAHAH^{1,4}, M. BENKÓ², Á. DÁN^{2,3}, K. URSU^{2,3}, M. RUSVAI¹, B. HARRACH²

Genetic analysis of the fiber gene and the early region 4 of bovine

adenovirus 2

¹Department of Microbiology and Infectious Diseases, University of Veterinary Sciences, ²Veterinary Research Institute, Hungarian Academy of Sciences, ³Central Veterinary Institute, Budapest, Hungary, ⁴RAZI Vaccine and Serum Institute, Teheran, Iran

16.00 – 16.15 APV O18

M. H. ISMAIL¹, A. A. ABOU-ZEID²

Studies on alfalfa mosaic virus of alfalfa in Egypt

¹Botany Department, Faculty of Science, Cairo University, ²Virology and Mycoplasma Department, Agricultural Research Center, Cairo, Egypt

16.15 – 16.30 APV O19

M. H. ISMAIL¹, M. S. AHMED²

Properties of sweet potato feathery mottle virus (SPMFV)

¹Botany Department, Faculty of Science, ²Botany Department, Faculty of Pharmacy, Cairo University, Cairo, Egypt

16.30 – 16.45 APV O20

Z. DIVÉKI, D. SZILASSY, K. SALÁNKI, E. BALÁZS

Monitoring the movement of RNA viruses in plant tissue: the role of tomato aspermy cucumovirus (TAV; Bromoviridae) coat protein in cell-to cell movement

Agricultural Biotechnology Center, Gödöllő, Hungary

Medical Veterinary and Plant Virology and Parasitology Session – Poster Discussion

(Corridor in front of the Lecture Halls)

17.00 – 18.30

Moderator: S. BELÁK, J. MOLNÁR

APV P1

D. SZABÓ¹, D. SHARPLES², Gy. HAJÓS³, J. MOLNÁR¹

Interactions of ellipticines with nucleic acids and reverse transcriptase

¹Institute of Microbiology, Albert Szent-Györgyi Medical University, Szeged, Hungary, ²School of Pharmacy and Pharmaceutical Sciences, The University of Manchester, England, ³Central Research Institute of Chemistry, Hungarian Academy of Sciences, Budapest, Hungary

APV P2

N. Y. A. SPIVAK, N. O. TIMOSHOK, V. ZOTSENKO, O. N.

MIKHAILENKO

Inductors of interferon – a new class of preparation with antiviral properties

Zobolothy Institute of Microbiology and Virology, National Academy of Sciences of Ukraine, Kiev, Ukraine

APV P3

E. BARABÁS-HAJDÚ¹, Z. PÁVAI², N. OPRIS³, Á. GÁLL³

In vitro study on the *Giardia lamblia* cysts' behaviour at different pH-s of the environment

¹Department of Microbiology and Parasitology, ²Department of Anatomy, ³Students, University of Pharmacy, Tirgu-Mures, Romania

APV P4

E. UJHELYI¹, E. KORCHMA², V. TARJÁN¹, J. SZABÓ¹, P. VÁGÓ²

HIV, hepatitis B, and C epidemiology in a stomatology department in Hungary

¹National Blood Transfusion Service, ²Budapest Institute of Stomatology, Budapest, Hungary

APV P5

I. MUCSI¹, J. MOLNÁR¹, N. MOTOHASHI²

Combined effects of benzo(α)phenothiazines and acyclovir against herpes simplex virus in cell culture

¹Department of Microbiology, Albert Szent-Györgyi Medical University, Szeged, Hungary, ²Department of Medical Chemistry, Meiji College of Pharmacy, Tokyo, Japan

APV P6

M. MEZEI¹, K. BALOG¹, M. TAKÁCS², Á. GYURIS¹, J. SEGESDI¹, Á. BAKOS¹, D. VÖDRÖS¹, D. BÁNHEGYI³, Gy. BERENCSEI², J. MINÁROVITS¹

Genetic subtypes of HIV-1 in Hungary

¹Microbiological Research Group, ²Department of Virology, National Center for Epidemiology, ³Szt. László Hospital, Budapest, Hungary

APV P7

V. ŠUBIKOVÁ¹, J. ŠUBÍK²

Soil-borne viruses of sugar beet detected in Slovakia

¹Institute of Experimental Phytopathology and Entomology, Ivanka pri Dunaji, ²Department of Microbiology and Virology, Faculty of Natural Sciences, Comenius University, Bratislava, Slovak Republic

APV P8

V. TARJÁN, E. UJHELYI

HIV, hepatitis B and C status of Hungarian drug addicts

HIV Confirmatory Laboratory, National Blood Bank Service, Budapest, Hungary

APV P9

J. DEÁK¹, E. NAGY¹, E. SZÖLLŐSI², GY. MÉSZÁROS², K. BOHUS², T. NYÁRI³

Follow-up study for determination of human papillomaviruses

¹Department of Clinical Microbiology, ²Department of Obstetrics and Gynecology, ³Department of Medical Informatics, Albert Szent-György Medical University, Szeged, Hungary

APV P10

I. KUCERA, S. RADULOVIC, S. VELIMIROVIC, N. BULAJIC, M. TATIC, V. BAJOVIC

Finding of intestinal protozoa cysts in stool using three methods

Institute of Microbiology, Authority for Preventive Medicine, Military Medical Academy, Faculty of Biology, Belgrade

APV P11

Gy. TÖMÖRY¹, Zs. SZÉNÁSI¹, J. SZABÓ², M. JESZENSZKY³, Zs. OZSVÁR⁴, E. VESZELOVSZKY¹, E. NAGY¹

Analysis of the serological results of *Toxoplasma* screening of pregnant women in Szeged

¹ Department of Clinical Microbiology, ²Department of Obstetrics and Gynaecology, ³Department of Infectious Diseases, Municipal Hospital of Szeged, Szeged, ⁴Department of Infectology, Szent György Hospital, Székesfehérvár, Hungary

*Pathogenesis, Taxonomy, Molecular Biology and Physiology of Yeasts and Fungi
Session – Lectures*

(Blue Lecture Hall)

14.00 – 15.30

Chairmen: P. ROMANO, P. RASPOR

14.00 – 14.30 **BYF O11**

P. ROMANO

Selection of starter cultures for winemaking

Dipartimento di Biologia, Difesa e Biotecnologie Agro-Forestali, Università degli Studi della Basilicata, Potenza, Italy

14.30 – 14.45 **BYF O12**

A. MARÁZ, A. POMÁZI

Molecular genotyping as a tool in the study of population dynamics of yeasts during wine fermentation

Department of Microbiology and Biotechnology, University of Horticulture and Food Industry, Budapest, Hungary

14.45 – 15.00 **BYF O13**

I. SÁRVÁRI HORVÁTH, M. J. TAHERZADEH, C. NIKLASSON, G. LIDÉN

Physiological effects of furfural on anaerobic continuous cultivation of *Saccharomyces cerevisiae*

Department of Chemical Reaction Engineering, Chalmers University of Technology, Göteborg, Sweden

15.00 – 15.15 **BYF O14**

M. S. YOUSSEF

Antidermatophytic activity of some medicinal plant essential oils and aqueous extracts against isolated human skin pathogenic fungi

Botany Department, Faculty of Science, South Valley University, Sohag, Egypt

*Pathogenesis, Taxonomy, Molecular Biology and Physiology of Yeasts and Fungi
Session – Poster Discussion*

(Corridor in front of the Lecture Halls)

15.30 – 16.00

Moderator: I. MIKLÓS

BYF P1

T. PAPP, Á. NAGY, Zs. PALÁGYI, M. VASTAG, Cs. VÁGVÖLGYI

Genetic studies on sexual processes of *Gilbertella persicaria*

Department of Microbiology, Attila József University, Szeged, Hungary

BYF P2

Á. JUHÁSZ¹, Zs. HAMARI², B. TÓTH¹, L. FERENCZY^{1,2}, F. KEVEI¹

Interpretation of mtDNA recombination events among vegetative

incompatible *Aspergillus japonicus* strains

¹ Department of Microbiology, Attila József University, ²Microbiological Research Group, Hungarian Academy of Sciences, Szeged, Hungary

BYF P3

Zs. ANTAL¹, L. MANCZINGER², L. KREDICS², L. FERENCZY^{1,2}

Investigation of the mitochondrial DNA organisation of *Trichoderma harzianum* strain

¹ Microbiological Research Group, Hungarian Academy of Sciences, ²Department of Microbiology, Attila József University, Szeged, Hungary

BYF P4

B. TÓTH¹, Zs. HAMARI², Zs. BEER¹, F. KEVEI¹

Detailed physical and functional maps of mitochondrial DNAs of an *Aspergillus niger* and an *A. tubingensis* strain and their interspecific recombinants

¹Department of Microbiology, Attila József University, ²Microbiological Research Group, Hungarian Academy of Sciences, Szeged, Hungary

BYF P5

A. GÁCSER, I. PFEIFFER, J. KUCSERA

Intraspecific polymorphisms among isolates of *Cryptococcus hungaricus*

Department of Microbiology, Attila József University, Szeged, Hungary

BYF P6

I. FAUST, B. JAKAB, J. HIDASY, M. PESTI

Parasexual recombination of *Candida albicans* morphological mutants

Department of Genetics and Microbiology, Janus Pannonius University, Pécs, Hungary

BYF P7

R. TÓTH, I. PFEIFFER, J. KUCSERA

A comparative analysis of the mitochondrial genomes of *Saccharomyces dairensis* strains CBS 421 and CBS 4309

Department of Microbiology, József Attila University, Szeged, Hungary

16.00 – 16.30

Moderator: J. ZALA

BYF P8

Zs. NEER, I. PFEIFFER, J. KUCSERA

Examination of killer phenotype attributed to dsRNA viruses in *Cryptococcus hungaricus*

Department of Microbiology, József Attila University, Szeged, Hungary

BYF P9

T. PAPP¹, Cs. FEKETE², M. VASTAG¹, Á. NAGY¹, Cs. VÁGVÖLGYI¹

Presence of double-stranded RNA molecules and virus-like particles in *Rhizopus* strains

¹Department of Microbiology, Attila József University, Szeged, ²Institute of Plant Sciences, Agricultural Biotechnology Center, Gödöllő, Hungary

BYF P10

T. NAGY, K. KISS, J. ZALA

Theoretical comparative study of yeast identification with some test kits

Department of Mycology, "Johan Béla" National Center for Epidemiology, Budapest, Hungary

BYF P11

K. KISS, J. ZALA, T. NAGY

Comparison of in vitro antifungal susceptibility tests

Department of Mycology, "Johan Béla" National Center for Epidemiology, Budapest, Hungary

BYF P12

V. G. ARZUMANIAN

New synthetic media for cultivation of lipophilic yeast *Malassezia* spp.

Mechnikov Research Institute for Vaccines and Sera, Russian Academy of Medical Sciences, Moscow, Russia

BYF P13

Z. GAZDAG¹, N. FARKAS¹, Zs. FEKETE¹, N. HARTVIG¹, M. NYITRAI², J. BELÁGYI³, M. PESTI¹

Chromium(III) and (VI)-induced plasma membrane processes in fission yeast

¹ Department of Genetics and Microbiology, Janus Pannonius University, ²Department of Biophysics, ³Central Research Laboratory, University Medical School, Pécs, Hungary

BYF P14

J. VARGHA, É. KEVEI, K. RIGÓ, B. TÓTH

Phylogenetic analysis of the toxigenic *Aspergillus ochraceus* species

Department of Microbiology, Attila József University, Szeged, Hungary

16.30 – 17.00

Moderator: F. KEVEI

BYF P15

D. DLAUCHY, J. TORNAI-LEHOCZKI, G. PÉTER

Identification of foodborne yeasts on the basis of 18S rDNA

National Collection of Agricultural and Industrial Microorganisms, University of Horticulture and Food Science, Budapest, Hungary

BYF P16

L. BÁNSZKY, A. MARÁZ

Genotypic characterisation of strains belonging to the *Schizosaccharomyces* genus by RAPD fingerprinting and ribotyping

Department of Microbiology and Biotechnology, University of Horticulture and Food Science, Budapest, Hungary

BYF P17

T. KLEFFLER, T. DEÁK, A. MARÁZ

Biodiversity of yeast biota in vineyard and wine fermentation

Department of Microbiology and Biotechnology, University of Horticulture and Food Industry, Budapest, Hungary

BYF P18

I. GRECO, P. ROMANO

Molecular biology strategies as biotechnological tools in wine quality

Dipartimento di Biologia, Difesa e Biotechnologie Agro-Forestali, Università degli Studi della Basilicata, Italy

BYF P19

K. SZOMBAT, A. POMÁZI, A. MARÁZ

Epidemiological study of entomopathogenic fungus *Ascophaera apis* by RAPD-PCR fingerprinting

University of Horticulture and Food Industry, Department of Microbiology and Biotechnology, Budapest, Hungary

BYF P20

E. VARGA¹, A. MARÁZ², K. CSEDŐ¹

Effect of microelement enrichment to the vitamin content of yeast

¹ Department of Pharmacognosy, University of Medicine and Pharmacy, Targu Mures, Romania, ²University of Horticulture and Food Industry, Department of Microbiology and Biotechnology, Budapest, Hungary

BYF P21

Á. SVEICZER¹, B. GYÓRFFY¹, A. CSIKÁSZ-NAGY¹, J. M. MITCHISON², B. NOVÁK¹

Quantised cycles in the fission yeast *wee1-50 cdc15* double mutant

¹ Department of Agricultural Chemical Technology, Technical University of Budapest, Budapest, Hungary, ²Institute of Cell, Animal and Population Biology, University of Edinburgh, Edinburgh, Great Britain

BYF P22

R. COSTENOBLE¹, T. BRANDBERG¹, L. ADLER², C. NIKLASSON¹, G. LIDÉN¹

Expression of the bacterial *mtlD* gene in a glycerol-3-phosphate dehydrogenase-deficient mutant of *Saccharomyces cerevisiae*

¹Department of Chemical Reaction Engineering, Chalmers University of Technology, ²Microbiology Group, Department of Cell and Molecular Biology, Göteborg University, Göteborg, Sweden

19.00–20.00 *Dinner*

Wednesday, September 1

7.00 – 8.00	<i>Breakfast</i>
8.00 -	<i>Registration</i>
8.00 – 13.00	MORNING SESSIONS
<i>IVANOVICS Memorial Session</i>	
(Yellow Lecture Hall)	
8.00 – 13.00	<i>Chairmen: L. ALFÖLDI, I. BÉLÁDI</i>
8.00 – 8.15	IMS O1
	E. FARKAS
	My always respected good friend György Ivánovics
8.15 – 8.30	IMS O2
	S. KOCH
	György and the viruses. Post-war Hungarian virology initiated by György Ivánovics
8.30 – 8.45	IMS O3
	L. ALFÖLDI
	The megacin story
	Institute of Genetics, Biological Research Center, Hungarian Academy of Sciences, Szeged, Hungary
8.45 – 9.00	IMS O4
	I. BEREK
	The story of the biochemical and genetic analysis of porphyrin biosynthesis in <i>Bacillus subtilis</i>
	Department of Food Technology and the Environment, College of Food Industry, Attila József University, Szeged, Hungary
9.00 – 9.15	IMS O5
	I. B. HOLLAND
	The secretion of <i>E. coli</i> haemolysin by the type I, ABC-dependent

mechanism

Institut de Génétique et Microbiologie, Université Paris-Sud, Orsay, France

9.15 – 9.30 **IMS O6**

I. DÖMÖK

Prospects in eradication of wild poliovirus

National Centre for Epidemiology, Budapest, Hungary

9.30 – 9.45 **IMS O7**

A. DOBOZY, L. KEMÉNY, R. GYULAI

Human herpesvirus type 8 in angiogenic tumors

Department of Dermatology, Albert Szent-Györgyi Medical University, Szeged, Hungary

9.45 –
10.00 **IMS O8**

J. FÖLDES

Effects of gyrase-inhibiting fluoro-quinolones on transformation and transfection in cells of *Bacillus subtilis*

Department of Clinical Microbiology, Albert Szent-Györgyi Medical University, Szeged, Hungary

10.00 –
10.15 **IMS O9**

J. MOLNÁR, Gy. GUNICS, Cs. MISKOLCI

Models for reversal of resistance in bacteria and fungi

Department of Clinical Microbiology, Albert Szent-Györgyi Medical University, Szeged, Hungary

10.15 –
10.30 **IMS O10**

A. MICZÁK^{1,2}, K. HÖNER zu BENTROP¹, D. G. RUSSELL¹

Lipid catabolism and intracellular survival of mycobacteria

¹Department of Molecular Microbiology, Washington University School of Medicine, St. Louis, MO, USA;

²Department of Microbiology, Albert Szent-Györgyi Medical University, Szeged, Hungary

10.30 –
10.45 **IMS O11**

M. KÁLMÁN¹, E. SZÖLLŐSI¹, A. FÓNAGY¹, M. ZIMÁNYI¹, L. LACZKOVICS²

Examination of serum antibodies to *Campylobacter jejuni. ssp. jejuni*

and GM₁ antibodies in peripheral neuropathy

¹Institute of Public Health and Medical Officer Service, ²Department of Experimental Surgery, Albert Szent-Györgyi Medical University, Szeged, Hungary

10.45 –
11.30

Coffee break

11.30 –
11.45

IMS O12

E. NAGY¹, I. SZŐKE¹, L. TÖRÖK²

Role of anaerobic bacteria in chronic prostatitis and male infertility

¹Department of Clinical Microbiology, ²Department of Urology, Albert Szent-Györgyi Medical University, Szeged, Hungary

11.45 –
12.00

IMS O13

I. M. VARGA, A. P. BATTEN

Fulminant cerebral listeriosis

K-W Hospital, Kitchener, Ontario, Canada

12.00 –
12.15

IMS O14

G. ÁDÁM¹, M. GORJANACZ¹, I. TÖRÖK², B.M. MECHLER², I. KISS¹

The role of the OHO-31 protein, an importin- α homologue, in the oogenesis of *Drosophila melanogaster*

¹Institute of Genetics, Biological Research Center, Szeged, Hungary, ²German Cancer Research Center, Heidelberg, Germany

12.15 –
12.30

IMS O15

I. FROLOV², E. AGAPOV², T. HOFFMAN², B. PRÁGAI¹, M. LIPPA², S. SCHLESINGER², C.M. RICE²

Selection of RNA replicons capable of persistent non-cytopathic replication in mammalian cells

¹Department of Microbiology, Albert Szent-Györgyi Medical University, Szeged, Hungary, ²Department of Molecular Microbiology, Washington University Medical School, St. Louis, MO, USA

12.30 –
12.45

IMS O16

I. MÉCS

Biological effects of interferons

Institute of Biotechnology, Zoltán Bay Foundation for Applied Research, Szeged, Hungary

12.45 –
13.00

IMS O17

I. BÉLÁDI

Avian and human interferon studies initiated by György Ivánovics

Department of Microbiology, Albert Szent-Györgyi Medical University, Szeged,
Hungary

*Bacterial Pathogens and Pathogenesis of Medical and Veterinary Importance Session –
Lectures*

(Red Lecture Hall)

9.30 –
12.00

Chairmen: R. AUCKENTHALER, T. PÁL

9.30 – 9.55 **BPM O22**

R. AUCKENTHALER

Diagnosis of mycobacteria: new developments

Laboratoire Central de Bacteriologie, Hopital Cantonal Universitaire de Geneve, Geneve,
Switzerland

9:55 –
10.20

BPM O23

B. SZABÓ¹, C. MISZTI¹, L. MAJOROS¹, L. MÓDIS², A. BERTA²

**Isolation, identification and eradication of *Agrobacterium radiobacter*
from human endophthalmitis**

¹Department of Microbiology, ²Department of Ophthalmology, University Medical School, Debrecen, Hungary

10.20 –
10.45

BPM O24

G. SZMOLLÉNY¹, I. TÓTH¹, K. RÁSKY¹, F. PÉTERFY², U. DINJUS³,
F.V. VAN ZIJDERVELDT⁴, B. NAGY¹

**Modified monoclonal antibody enzyme-linked immunosorbent assays
for detection of specific antibodies to *Salmonella enteritidis* in poultry**

¹Veterinary Medical Research Institute, Hungarian Academy of Sciences, ²Diagnosticum
Ltd., Budapest, ³BGVV Institute of Bacterial Animal Diseases and Zoonoses, Jena,
Germany, ⁴DLO-Institute for Animal Science and Health, Lelystad, The Netherlands

10.45 –
11.00

BPM O25

Á. DÁN^{1,2}, I. FERENCNÉ¹, P. DE SANTIS³, M. TENK^{1,2}, B.
HARRACH¹, L. STIPKOVITS¹

**Investigations on the presence of *Mycoplasma mycoides* ssp. *mycoides*
small colony type in Hungarian cattle herds by PCR**

1Veterinary Medical Research Institute, Hungarian Academy of Sciences, Budapest, Hungary, 2Central Veterinary Institute, Budapest, Hungary, 3Istituto Zooprofilattico Sperimentale dell' Abruzzo e del Molise "G. Caporale", Teramo, Italy

11.00 –
11.15

BPM O26

R. ROSENGARTEN, C. CITTI

Host-pathogen interactions in *Mycoplasma* pathogenesis: immune evasion and exploitation of host cells

Institute of Bacteriology, Mycology and Hygiene, University of Veterinary Medicine, Vienna, Austria

11.15-11.45

BPM O27

G. STANEK

Lyme Borreliosis in Europe

Institute of Hygiene, Medical Faculty, University of Vienna, Austria

Lectures Sponsored by EGIS Gyógyszergyár Rt.

11.45 –
12.00

BPM O28

F. ROZGONYI, Á. GHIDÁN

The effect of iodine polyvinylpyrrolidone (Betadine®) on multiple antibiotic resistant bacteria and *Candida albicans*

Institute of Microbiology, "Semmelweis" University Medical School, Budapest

12.00 –
12.15

BPM O29

To be announced

General and Microbial Immunology – Lectures

(Green Lecture Hall)

9.00 –
12.30

Chairmen: C. SUSAL, A. ERDEI

9.00 – 9.40

GMI O1

W. SOLBACH, T. LASKAY

Role of innate and adaptive immunity for resistance to Leishmania infection

Institute for Medical Microbiology and Hygiene, University Luebeck, Luebeck, Germany

9.40 –
10.20

GMI O2

É. RAJNAVÖLGYI¹, A. HORVÁTH¹, N. NAGY², Á. SIMON¹, I. K.

FALK², I. ERNBERG², É. KLEIN²

The role of Cd4+ T-lymphocytes in viral infections

¹Department of Immunology Eötvös L. University, Göd, Hungary, ²Karolinska Institute, Microbiology and Tumorbiology Center, Stockholm, Sweden

10.20 –
10.35

Coffee break

10.35 –
10.50

GMI O3

J. ONGRÁDI^{1,2}, A. AHMAD², A. HORVÁTH¹, J. MENEZES²

Induction of key cytokines in PBMC by human herpesvirus 7

¹National Institute of Dermato-Venerology, Budapest, Hungary, ²Department of Medical Microbiology and Immunology, University of Montreal, Canada

10.50 –
11.05

GMI O4

K. MEGYERI, Y. MÁNDI, I. ROSZTÓCZY

Induction of cytokine production by different *Staphylococcus* strains

Department of Microbiology, Szent-Györgyi Albert Medical University, Szeged, Hungary

11.05 –
11.20

GMI O5

Y. MÁNDI¹, Gy. FARKAS², T. TAKÁCS³

Relevance of procalcitonin in the prediction of sepsis and infected pancreas necrosis

¹Department of Microbiology, ²Department of Surgery, ³1st Department of Medicine, A. Szent-Györgyi Medical University, Szeged, Hungary

11.20 –
11.35

GMI O6

J. SZABÓ¹, Z. PROHÁSZKA², F. D. TÓTH¹, Á. GYURIS³, J. SEGESDI³, D. BÁNHEGYI⁴, E. UJHELYI⁵, J. MINÁROVITS³, G. FÜST²

Strong correlation between the complement-mediated antibody-dependent enhancement of HIV-1 infection and plasma viral load

¹Institute of Microbiology, University Medical School, Debrecen, Hungary, ²3rd Department of Medicine, Semmelweis Medical University, and Research Group of Metabolism, Genetics and Immunology, Hungarian Academy of Sciences, Budapest, Hungary, ³Research Group of Microbiology, National Center of Epidemiology, Budapest, Hungary, ⁴Department of Immunology, St. László Hospital, Budapest, Hungary, ⁵National Blood Transfusion Center, Budapest, Hungary

11.35 –
11.50

GMI O7

P. SOÓS¹, H-J. SCHUBERT², K-R. DEPNER²

Immunological studies on porcine leukocytes during classical swine fever infection

¹Department for Microbiology and Infectious Diseases, University of Veterinary Science, Budapest, Hungary,
²Hannover Veterinary School, Hanover, Germany

11.50 -
12.05

GMI O8

T. LASKAY, H. LAUFS, N. JAHNKE, W. SOLBACH

Leishmania prevent apoptosis of neutrophil granulocytes

Institute for Medical Microbiology and Hygiene, Medical University of Lübeck, Lübeck, Germany

12.05 –
12.20

GMI O9

L. D. VARBANETS, N. V. MOSKALENKO

Interferoninducing activity of *Ralstonia solanacearum* lipopolysaccharides

Institute of Microbiology and Virology, National Academy of Sciences, Kiev, Ukraine

12.20 –
12.35

GMI 10

J. TÓVÁRI¹, I. NÉMETH¹, S. H. M. JEURISSEN², J. M. SHARMA³, T. F. DAVISON⁴, Cs. N. DRÉN¹

Comparative assay of chicken and geese immunoglobulins and lymphocytes

¹Veterinary Medical Research Institute, Hungarian Academy of Sciences, Budapest, Hungary, ²Institute for Animal Science and Health, The Netherlands, ³University of Minnesota, College of Veterinary Medicine, USA, ⁴Institute for Animal Health, Compton, UK

General and Microbial Immunology – Poster Discussion

(Corridor in front of the Lecture Halls)

12.45 –
13.15

Moderator: S. TUBOLY

GMI P1

B. FILIPIC¹, O. ZORMAN-ROJS²

Biological activity of interferons in the sera of commercial poultry flocks vaccinated under the standard immunoprophylactic

programmes

¹Institute of Microbiology and Immunology, Medical Faculty, ²Institute for Health Care of Poultry, Veterinary Faculty, Ljubljana, Slovenia

GMI P2

B. FILIPIC¹, S. TOTH², S. KOREN¹

Modification of Eagle's medium to cultivate the adherent cells in suspension

¹Institute of Microbiology and Immunology, Medical Faculty of Ljubljana, Slovenia, ²Institute of Biotechnology, Attila József University of Science, Szeged, Hungary

GMI P3

J. IVÁN¹, N. NAGY², I. KACSKOVICS³

Examination of B cell development in the bursa Fabricii after *in-ovo* injection of an infectious bursal disease immune complex vaccine

¹Veterinary Research Institute, Hungarian Academy of Sciences, ²Department of Human Morphology and Developmental Biology, Semmelweis University Medical School, ³Department of Physiology and Biochemistry, University of Veterinary Science, Budapest, Hungary

GMI P4

É. BARABÁS, K. NAGY, V. VÁRKONYI, R. GONZALEZ, A. HORVÁTH

Disregulated mRNA expression of type 1 (IFN γ) but not type 2 (IL-10, IL-4) cytokines in asymptomatic phase of HIV infection

National Institute of Dermato- Venerology, Budapest, Hungary

Physiological and Molecular Basis of Metabolite Overproduction Session – Lectures

(Blue Lecture Hall)

9.00 –
11.30

Chairmen: A. L. DEMAINE, A. SZENTIRMAI

9.00 – 9.15 **MOP O1**

L. KARAFFA, E. SÁNDOR, A. SZENTIRMAI

Chemostat – a powerful tool in basic research

Department of Microbiology and Biotechnology, Kossuth Lajos University, Debrecen, Hungary

9.15 – 9.30 **MOP O2**

L. KARAFFA, K. VÁCZY, E. SÁNDOR, I. PÓCSI, A. SZENTIRMAI

Intracellular peroxide concentrations correlate with cyanide-resistant alternative respiration in *Acremonium chrysogenum*

Department of Microbiology and Biotechnology, Kossuth Lajos University, Debrecen, Hungary

9.30 – 9.45 MOP O3

E. SÁNDOR, L. KARAFFA, A. SZENTIRMAI

Acridine orange a sensitive indicator of metabolic activity

Department of Microbiology and Biotechnology, Kossuth Lajos University

9.45 –
10.15 MOP O4

C. P. KUBICEK, J. STRAUSS

Carbon catabolite repression in *Aspergillus nidulans*

Institut für Biochemische Technologie, Sektion Mikrobielle Biochemie, TU Wien, Vienna, Austria

10.15 –
10.30 **Coffee break**

10.30 –
10.45 MOP O5

Z. NAGY¹, A. SZENTIRMAI¹, S. BIRÓ²

Purification and properties of β -galactosidase from *Penicillium chrysogenum*

¹Department of Microbiology and Biotechnology, Kossuth University, Debrecen, Hungary, ²Department of Human Genetics, University Medical School, Debrecen, Hungary

10.45 –
11.00 MOP O6

S. BIRÓ¹, Zs. BIRKÓ¹, A. SÜMEGI¹, A. VINNAI¹, G. WEZEL³, F. SZESZÁK¹, S. VITÁLIS¹, P. SZABÓ², Z. KELE², T. JANÁKY²

Characterisation of the gene for factor C, an extracellular signal protein involved in morphological differentiation of *Streptomyces griseus*

¹Department of Human Genetics, University Medical School of Debrecen, Hungary, ²Department of Medicinal Chemistry, Albert Szent-Györgyi Medical University, Szeged, Hungary, ³Department of Biochemistry, Leiden University, Gorlaeus Laboratory, Leiden, The Netherlands

11.00 –
11.15 MOP O7

G. H. KELEMEN, M. J. BUTTNER

Transcriptional switching during morphogenesis in *Streptomyces coelicolor* A3(2)

John Innes Centre, Norwich, United Kingdom

11.15 –
11.30

MOP O8

A. PENYIGE¹, Gy. BARABÁS²

The involvement of GTP-binding proteins in triggering morphological differentiation and antibiotic production in *Streptomyces griseus*

¹Institute of Medical Biology, Albert Szent-Györgyi Medical University, Szeged, ²Institute of Humangenetics, University Medical School Debrecen, Hungary

Physiological and Molecular Basis of Metabolite Overproduction Session – Poster Discussion

(Corridor in front of the Lecture Halls)

11.30 –
12.30

Moderator: C. P. KUBICEK

MOP P1

R. MARITS^{1,2}, D. FLEGO², A. ERIKSSON², V. KÖIV^{1,2}, M-B. KARLSSON², E. T. PALVA³

A two-component regulatory system *pehRpehS*, controls endopolygalacturonase production and virulence in the plant pathogen *Erwinia carotovora* subsp. *carotovora*.

¹Institute of Molecular and Cell Biology, University of Tartu, Tartu, Estonia, ²Department of Plant Biology, Uppsala Genetic Center, Swedish University of Agricultural Sciences, Uppsala, Sweden, ³Department of Biosciences, Division of Genetics, University of Helsinki, Helsinki, Finland

MOP P2

E. SÁNDOR¹, A. JUHÁSZ¹, L. KARAFFA¹, G. C. PAUL², I. PÓCSI¹, C.R. THOMAS², A. SZENTIRMAI¹

Assessment of metabolic activity of filamentous fungi using acridine orange

¹ Department of Microbiology and Biotechnology, Kossuth Lajos University, Debrecen, Hungary

² School of Chemical Engineering, The University of Birmingham, Birmingham, United Kingdom

MOP P3

M. VASTAG, G. KRISZTINA, T. PAPP, K. ÁCS, Cs. VÁGVÖLGYI

	<p>The antifungal activity of lovastatin against <i>Rhizomucor</i> strains</p> <p>Department of Microbiology, Attila József University, Szeged, Hungary</p> <p>MOP P4</p> <p>M. N. DAVYDOVA, <u>F. K. MUKHITOVA</u></p> <p>Overproduction of extracellular hydrocarbons by <i>Desulfovibrio desulfuricans</i></p> <p>Kazan Institute of Biochemistry and Biophysics, Kazan Scientific Centre, Academy of Science of Russia, Kazan, Russia</p>
13.00 – 14.00	<i>Lunch</i>
14.00 – 17.00	AFTERNOON SESSION
14.00 – 17.00	CONGRESS WORKSHOP
<p><i>Interaction of Viral and Bacterial Infections, an ESCV – ICHSM Joint Meeting Session – Lectures</i></p> <p>(Green Lecture Hall)</p>	
14.00 – 17.00	<i>Chairmen: R. P. BERCOFF, G. FRIMAN</i>
14.00 – 14.20	<p>VBI O1</p> <p>M. DEGRÉ</p> <p>Interaction of viral and bacterial infections</p> <p>Institute of Microbiology, University of Oslo, Rikshospitalet, Oslo, Norway</p>
14.20 – 14.40	<p>VBI O2</p> <p>G. FRIMAN</p> <p>Viral and bacterial heart diseases</p> <p>Department of Clinical Microbiology, University of Uppsala, Uppsala, Sweden</p>
14.40 – 15.00	<p>VBI O3</p> <p>R. P. BERCOFF</p> <p>The molecular basis of recombination of poliovirus: Implications for eradication programmes</p> <p>Department of Cell and Developmental Biology, University of Rome “La Sapienza”, Rome, Italy</p>
15.00 – 15.20	VBI O4

V. ENDRÉSZ¹, K. BURIÁN¹, D. VIRÓK¹, Z. KIS¹, K. BODA², Z. PROHÁSZKA³, G. FÜST³, É. GÖNCZÖL¹

Human cytomegalovirus and *Chlamydia pneumoniae* specific antibodies in sera of patients with coronary heart disease

¹ Departments of Medical Microbiology, ² Department of Informatics, Albert Szent-Györgyi Medical University, Szeged, ³ IIIrd Department of Medicine, Semmelweis Medical University, Budapest, Hungary

15.20 –
15.40

VBI O5

A. VARGA¹, W. SOTOKOSTKA-KÖHLER², W. PRESBER², V. von BAEHR³, R. von BAEHR³, R. LUCIUS¹, D. VOLK³, J. MOLNÁR⁵

Interaction between protozoan parasites and cancer cells: *Toxoplasma* infection is able to reverse multidrug resistance of mouse lymphoma and human gastric cancer cells *in vitro*

¹Department of Molecular Parasitology, Biological Institute, ²Institute of Microbiology, ³Department of Medical Immunology, Faculty of Medicine (Charité), Humboldt University, Berlin, ⁴Society for Interdisciplinary Immunology, Munich, Germany, ⁵Department of Microbiology, Albert Szent-Györgyi Medical University, Szeged, Hungary

15.40 –
16.00

Coffee break

16.00 –
16.20

VBI O6

E. M. ELNIFRO¹, R. J. COOPER¹, P. E. KLAPPER², A. B. TULLO³

Multiplex PCR for the diagnosis of viral and chlamydial conjunctivitis

School of Medicine, University of Manchester, Clinical Virology, CMHT and Royal Eye Hospital, Manchester, U.K.

16.20 –
16.40

VBI O7

L. SEGANTI¹, S. PISANI¹, C. GALLINELLI¹, A. LUKIC², F. NOBILI², G. VETRANO², M. IMPERI³, A. M. DEGENER³, F. CHIARINI¹

Viral and bacterial coinfections in cervicitis

¹ Institute of Microbiology, ² Institute of Obstetrics and Gynecology, ³ Department of Cell and Developmental Biology, University of Rome, Rome, Italy

16.40 –
17.00

VBI O8

F. SUPERTI¹, M. G. AMMENDOLIA¹, A. TINARI¹, F. IOSI¹, A. M. DI BIASE², G. PETRONE², M. P. CONTE², L. SEGANTI²

Coinfection of enterocyte-like cells by rotavirus and *Yersinia* species

¹ Laboratory of Ultrastructure, ISS, ² Institute of Microbiology, Università La Sapienza, Rome, Italy