

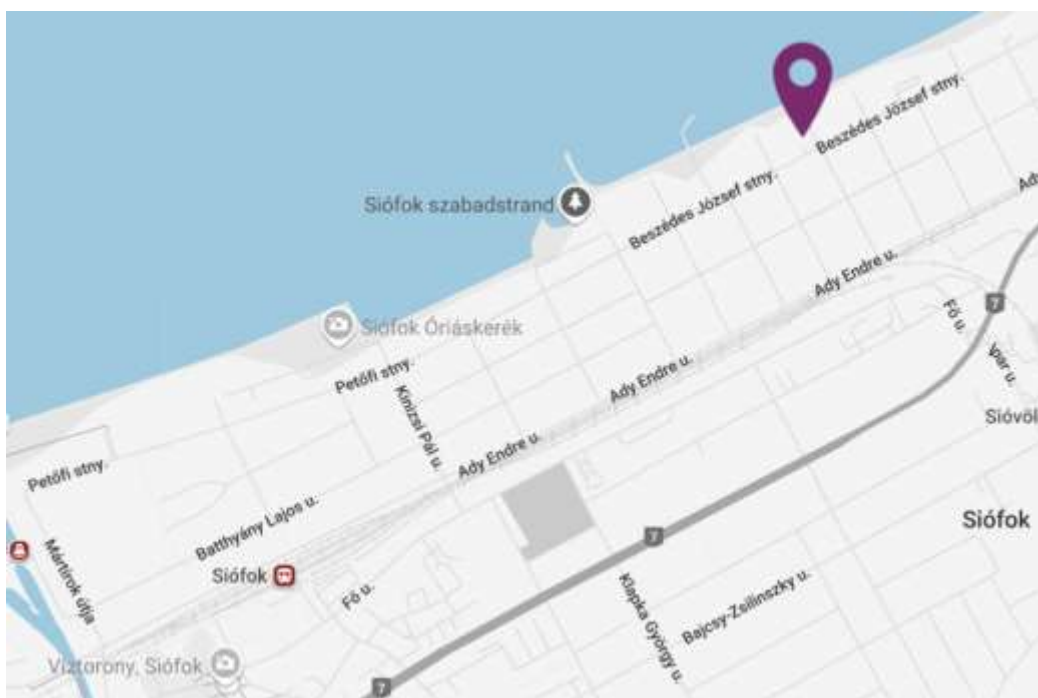
PROGRAMME

of the

7th Central European Forum for Microbiology



Hotel Panoráma
Siófok, Hungary
October 6-8, 2025



Prémium Hotel Panoráma, Siófok 8600 Siófok, Beszédes J. promenade 80.

GPS coordinates: N 46.916635, E 18.068987

Arriving by train you can take local bus

<https://helyimenetrend.mavcsoport.hu/hu/menetrendek/helyi-jaratok/siofok>

from railway station to bus stop „Tamási Áron” street

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PROGRAMME
of the
**7th Central European Forum for
Microbiology**

hosted by the
Hungarian Society for Microbiology



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

Hotel Panoráma
Siófok, Hungary
October 6-8, 2025

Programme at a glance

Monday, October 6th

Conference Hall I.

13:00 – 13:20	Opening Ceremony
13:20 – 13:50	Honorary Member's lecture
14:00 – 15:30	Plenary Session Current trends - Biogeochemical cycles and the Anthropocene
16:00 – 16:15	Environmental Microbiology and Biotechnology – Session I.
from 18:30 on	Poster&Wine Evening

Conference Hall II.

16:30 – 17:55	Plant Virology Session
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Tuesday, October 7th

Conference Hall I.

9:00 – 11:35	Bacteriology & Clinical and Diagnostic Microbiology Session
13:00 – 14:30	Virology– Session I.
15:00 – 16:30	Virology– Session II.
17:00 – 18:40	Mycology & Industrial Microbiology– Session II.
19:00	<i>Conference Dinner</i>

Programme at a glance

Tuesday, October 7th

Conference Hall II.

9:00 – 10:15	Environmental Microbiology and Biotechnology – Session II.
10:45 – 12:15	Agricultural and Food Microbiology– Session I.
13:30 – 15:10	Mycology & Industrial Microbiology– Session I.
16:00 – 17:40	Agricultural and Food Microbiology– Session II.
19:00	<i>Conference Dinner</i>

Wednesday, October 8th

Conference Hall I.

9:30 – 11:15	Virology– Session III.
11:15 – 11:30	<i>Closing remarks</i>

Conference Hall II.

9:30 – 11:00	Agricultural and Food Microbiology– Session III.
11:15 – 11:30	<i>Closing remarks</i> in Conference Hall I.

Monday, October 6th
Conference Hall

13.00-13.20 Opening Ceremony

Welcome Addresses of the Organizers

Ceremony on Honorary Membership

13:20 - 13:50

IMPACTS OF MICROPLASTIC POLLUTION ON SOIL AND RHIZOSPHERE MICROBIOTA

Tillmann Lueders¹

1# Chair of Ecological Microbiology, Bayreuth Center of Ecology and Environmental Research (BayCEER), University of Bayreuth, Germany

Plenary Session

Current trends - Biogeochemical cycles and the Anthropocene

Chairpersons: Tillmann Lueders and András Táncsics

14:00 - 14:30

RECENT ADVANCES IN OXYGENIC DENITRIFICATION: POTENTIAL MECHANISMS AND ENVIRONMENTAL RELEVANCE

Baoli Zhu¹, Yi Liu², Yanfan Liu², Dongliang Yao², Linrong Han², Hongling Qin²

1# Chinese Academy of Sciences, Changsha, China; 2# Institute of Subtropical Agriculture, Chinese Academy of Sciences

14:30 - 15:00

THE TREE PHYLLOSHERE MICROBIOME: AN OVERLOOKED AND IMPORTANT SINK FOR CARBON MONOXIDE?

Sinchan Banerjee¹, Tudor Stafioiu¹, Edina Prondvai¹, Daniel Gomez-Perez², Chris Quince², Gary Bending¹, James A. Covington³, Hendrik Schäfer¹

1# School of Life Sciences, University of Warwick, Coventry, United Kingdom, 2# Earlham Institute, Norwich Research Park, Colney Lane, Norwich, UK, 3# School of Engineering, University of Warwick, Coventry, UK

15:00 - 15:30

MAPPING THE MICROBIAL DARK MATTER – RELEVANCE OF *PATESCIBACTERIA* IN PETROLEUM HYDROCARBON CONTAMINATED AQUIFERS

¹András Táncsics, ¹Erzsébet Baka, ¹Renáta Ábrahám, ^{2,3}Indra Banas ^{2,3}A. Rodrigues-Soares ^{2,3,4}A.J. Probst, ⁵Balázs Kriszt

¹Department of Molecular Ecology, Hungarian University of Agriculture and Life Sciences, Institute of Aquaculture and Environmental Safety, Gödöllő-2100, Páter K. street 1., Hungary ²Environmental Metagenomics, Research Center One Health Ruhr of the University Alliance Ruhr, Faculty of Chemistry, University of Duisburg-Essen, Germany ³Centre of Water and Environmental Research (ZWU), University of Duisburg-Essen, Essen, Germany ⁴Center of Medical Biotechnology (ZMB), University of Duisburg-Essen, Essen, Germany ⁵Department of Environmental Toxicology, Hungarian University of Agriculture and Life Sciences, Institute of Aquaculture and Environmental Safety, Páter Károly u. 1., 2100, Gödöllő, Hungary

Monday, October 6th, Lecture Hall I.

Environmental Microbiology and Biotechnology – Session I.

Chairpersons: Baoli Zhu and András Táncsics,

16:00 - 16:15

MULTIPATHOGENIC WASTEWATER SURVEILLANCE: STREAMLINING FOR MULTIPLE TARGETS FROM A SINGLE SAMPLE

Ábel Csongor Németh^{1,2}, Eszter Róka¹, Bernadett Khayer¹, Balázs Seres¹, Boglárka Dóra Pollák¹, Eszter Schuler¹, Bernadett Pályi³, Judit Henczkó³, Márta Vargha¹

1# National Center for Public Health and Pharmacy, Department of Public Health Laboratories and Methodology, Budapest, Hungary; 2# Doctoral School of Environmental Sciences, ELTE Eötvös Loránd University, Budapest, Hungary; 3# National Center for Public Health and Pharmacy, Department of Microbiology Reference Laboratories, Budapest, Hungary

16:15 - 16:30

ATYPICAL BACTERIAL PATHOGENS IN HEALTHCARE-ASSOCIATED WATER MATRICES

Boglárka Dóra Pollák¹, Balázs Seres¹, Emese Ágnes Tornainé Kálmán¹, Bernadett Khayer¹, Ábel Csongor Németh¹, Györgyné Lénárt¹, Márta Vargha¹, Eszter Róka¹

1# National Center for Public Health and Pharmacy

16:30 - 16:45

VALIDATION OF A NAOVEL MEMBRANE-FILTRATION BASED METHOD FOR THE DETECTION OF *E. COLI* AND COLIFORM BACTERIA IN RECREATONAL WATER

Khayer Bernadett^{1,4,5}, Eszter Schuler^{1,5}, Anett Lippai², Anita Scheirichné Szax³, Beáta Battó³, Gábor Kovács³, Márta Vargha^{1,4,5}

1: National Center for Public Health and Pharmacy, Department of Methodology and Public Health Laboratories, Division of Environmental Health Laboratories, Budapest, Hungary; 2: BOKOR Technological and Environmental Protection Ltd., Budapest, Hungary; 3: Government Office of the Capital City Budapest, Department of Public Health, Division of Laboratory, Budapest, Hungary 4: University of Debrecen, One Health Institute, Debrecen, Hungary; 5: WHO Collaborating Centre for Environmental Health Risk Management, Budapest, Hungary

16:45 - 17:00

MICROBIOLOGICALLY INFLUENCED CORROSION – INSIGHTS FROM FIELD-RELEVANT EXPERIMENTS

Judit Knisz¹

1# Ludovika University of Public Service

17:00 - 17:15

MICROBIAL DIVERSITY AND IRON METABOLISM IN CORROSION-ASSOCIATED COMMUNITIES: METAGENOMIC INSIGHTS FOR WATER INFRASTRUCTURE MONITORING

Balázs Tibor Kunkli^{1,2}, Judit Knisz^{1,2}, Zsuzsanna Kecskés Maconkai^{1,2}

1# University of Public Service, Faculty of Water Sciences, Department of Aquatic Environmental Sciences; 2# National Laboratory for Water Science and Water Safety, University of Public Service, Faculty of Water Sciences

Plant Virology Session

Chairpersons: Ana Vučurović and Éva Várallyay

16:30 - 16:55

ENVIRONMENTAL TRANSMISSION ROUTES OF EMERGING TOBAMOVIRUSES AND OTHER STABLE PLANT PATHOGENS

Ana Vučurović¹, Irena Bajde¹, Jakob Brodarič¹, Miha Kitek¹, Marko Marohnič¹, Ion Gutiérrez-Aguirre¹, Denis Kutnjak¹, Katarina Bačnik¹, Maja Ravnikar¹, Nataša Mehle¹

¹# National Institute of Biology, Department of Biotechnology and Systems Biology, Ljubljana, Slovenia

16:55 - 17:10

EMERGING AND RE-EMERGING VIRUSES IN SOLANACEOUS AND CUCURBITACEOUS CROPS OF CROATIA

Dorotea Grbin^{1,2}, Martin Jagunić¹, Adrijana Novak³, Dijana Škorić¹

¹# 1Department of Biology, Faculty of Science, University of Zagreb, Maruličev Trg 9a, 10000 Zagreb; ²# 3Croatian Veterinary Institute, Savska cesta 143, 10000 Zagreb, Croatia; ³# 2Diagnostics and Analytics Department, Centre for Plant Protection (HAPIH), Gorice 68B, 10000 Zagreb, Croatia

17:10 - 17:25

PREVALENCE AND GENETIC DIVERSITY OF VIRUSES INFECTING RED RASPBERRIES IN SERBIA

Darko Jevremović¹, Bojana Vasilijević¹

¹# Fruit Research Institute, Čačak, Serbia

17:25 - 17:40

DETECTION OF A PELARSPOVIRUS SEQUENCE IN DOGWOOD (CORNUS SP.) EXHIBITING VIRUS-LIKE SYMPTOMS

Eva Kovačec, Nika Krivec, Aljoša Beber, Barbara Grubar, Janja Lamovšek, Irena Mavrič Pleško

Agricultural Institute of Slovenia, Hacquetova ulica 17, Ljubljana, Slovenia

17:40 - 17:55

INVESTIGATION OF VSR CODING CAPACITY OF APPLE INFECTING VIRUSES

Almash Jahan, Vivien Fákó, Éva Várallyay

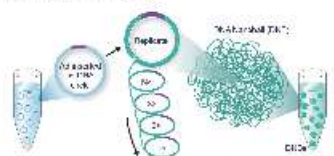
Hungarian University of Agriculture and Life Science, Institute of Plant Protection, Department of Plant Pathology, Genomics Research Group, Gödöllő, Hungary



NGS result summary in CHGENE laboratory, Győr

- Instrument: MGI G99
- Samples: soil, plant twig, layered rock mass
(ATOPlex-DualBarcodes-01-96)
- DNA library prep.: ATOPlex Metabarcoding Library Prep Kit
- Chemistry: PE300
- Theoretical output / Run / Cell: 80,00 M read vs. 133,84 M read

Nanoball technology

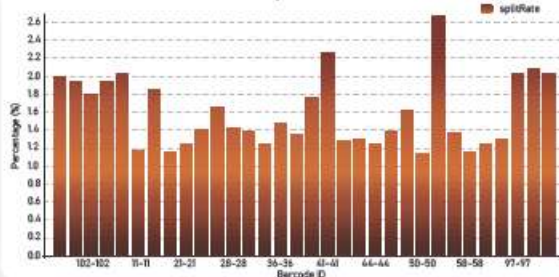


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Run summary information

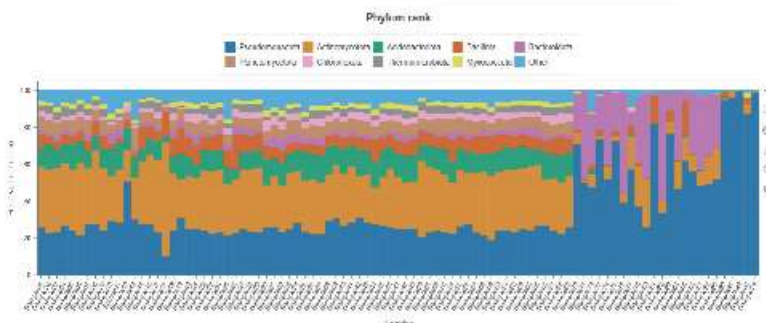
Category	Value
SoftwareVersion	17.0.674
TemplateVersion	0.8.0
Reference	NULL
CycleNumber	620
ChipProductivity(%)	88.61
TotalReads(M)	133.84
Q30(%)	94.88
Q40(%)	89.86
SplitRate(%)	98.18

Barcode splitRate chart



The realized read quantity of the run has highly overachieved the sequencer's nominal capacity, with the result of high Q30 and Q40 values. The barcode distribution has been considered quite homogen with no relevant differences in the split rate, which provide a reliable result on the sequence datas.

Taxonomy (Sample01-96)



On the Phylum rank bar chart the differences in microbial community distribution between soil, plant twig and layered rock is obviously demonstrated by the MGI-NGS results. Sample01-69 are soil, Sample70-89 are plant twig and Sample90-96 are layered rock mass based.

CHGENE – CHH Technology Ltd.

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Instructions:

Conference Hall I is arranged by 18:15 as follows:

Rear half for poster stands, front half with chairs left at the spot to have also a relaxing chat with your colleagues. Wine is served from 18:30 on

Poster presenters are expected to stay at their posters from 19:00 to 19:30. If you have purchased dinner, you can have it either before or after.

P01 - Agricultural and Food Microbiology

DETECTION OF ICA AND BAP GENES RELATED WITH BIOFILM-FORMING ABILITY IN STAPHYLOCOCCI FROM EWE MILK LUMP CHEESES

Bino Eva¹, Fraqueza Maria Joao², Zábolyová Natália¹, Pogány Simonová Monika¹, Lauková Andrea¹

1# 1Centre of Biosciences of the Slovak Academy of Sciences, Institute of Animal Physiology, Šoltésvej 4-6, 040 01 Košice, Slovakia; 2# 2University in Lisbon, Faculty of Veterinary Medicine, CIISA-Centre of Interdisciplinary Research in Animal Health, Avenida Universidade Técnica, 1300-477 Lisbon, Portugal

P02 - Agricultural and Food Microbiology

ENRICHMENT OF ESTROGEN-DEGRADING BACTERIA ORIGINATED FROM DAIRY FARMS

Emília Laura Dzsudzsák¹, Márton Pápai¹, András Táncsics¹, Julianna Kobolák¹, Edit Kaszab¹

1# Hungarian University of Agriculture and Life Sciences, Institute of Aquaculture and Environmental Safety

P03 - Agricultural and Food Microbiology

ANTIBIOTIC RESISTANCE GENES SCREENING IN STAPHYLOCOCCI SELECTED FROM RAW GOAT MILK

Natália Zábolyová^{1,2}, Monika Pogány Simonová¹, Aleksandra Troscianczyk³, Andrea Lauková¹

1# Centre of Biosciences of the Slovak Academy of Sciences, Institute of Animal Physiology, Šoltésvej 4-6, 040 01 Košice, Slovakia; 2# The University of Veterinary Medicine and Pharmacy in Košice, Komenského 73, 041 81 Košice; 3# University in Lublin, Faculty of Veterinary Medicine, Veterinary Microbiology Sub-Department, Akademicka street 12, 20950 Lublin, Poland

P04 - Agricultural and Food Microbiology

EXPLORING LAB AS NATURAL INHIBITORS OF *CLOSTRIDIUM DIFFICILE*

Ildikó Bata-Vidács¹, Judit Kosztik¹, Dénes Dlačuchy², József Kukolya¹

1# Food and Wine Research Institute, Eszterházy Károly Catholic University; 2# National Collection of Agricultural and Industrial Microorganisms, Institute of Food Science and Technology Hungarian University of Agriculture and Life Sciences

P05 - Agricultural and Food Microbiology

PLANT GROWTH PROMOTING BACTERIA FROM THE RHIZOSPHERE OF SZARVASI-1 ENERGY GRASS

Flóra Boglárka Horváth^{1,2,3}, Orsolya Balázs¹, Gyula Sipos⁴, Ferenc Fodor^{2,3}, Erika Tóth^{1,2}

1# Eötvös Loránd University, Department of Microbiology; 2# Eötvös Loránd University, Doctoral School of Biology; 3# Eötvös Loránd University, Department of Plant Physiology and Molecular Plant Biology; 4# Agricultural Research and Development Institute, Szarvas, Hungary

P06 - Agricultural and Food Microbiology

BIOCHAR-BASED CARRIERS FOR MICROBIAL INOCULANTS IN SUSTAINABLE AGRICULTURE: A STUDY ON VIABILITY AND PERSISTENCE

Mátyás Köves¹, Levente Kardos², Zsolt Kotroczó², Tamás Kocsis³

1# Doctoral School of Horticultural Sciences, Hungarian University of Agriculture and Life Sciences, 1118 Budapest, Hungary; 2# Department of Agro-Environmental Sciences, Hungarian University of Agriculture and Life Sciences, 1118 Budapest, Hungary; 3# Institute of Food Science and Technology, Hungarian University of Agriculture and Life Sciences, 1118 Budapest, Hungary

P07 - Agricultural and Food Microbiology

EFFECTS OF VOCs RELEASED BY ENDOPHYTIC BACTERIAL STRAINS ISOLATED FROM THE RASPBERRY CANE MIDGE AND THE RASPBERRY SLENDER ORNAMENTAL BEETLE ON ELDERBERRY SHOOT BUDS IN VITRO

Annamária Tóthné Hortó¹, Éva Ágnes Preininger², Zoltán Kirilla², Luca Krisztina Szabó², Tamás Felföldi³, Gábor Kollányi⁴, József Kutasi⁵, Tamás Rétfalvi⁶, György Sipos⁷

1# MATE - Doctoral School of Plant Sciences, 2100 Gödöllő, Péter Károly str. 1.; 2# MATE Institute of Horticultural Sciences, Fruit Growing Research Centre, 1223 Budapest, Park str. 2.; 3# ELTE Eötvös Loránd University, Department of Microbiology, Budapest 1117 Pázmány Péter str. 1/C.; 4# 9435 Sarród, Kossuth Lajos str. 57. 1/C.; 5# MATE - Doctoral School of Plant Sciences, Bp. 1045 Berlini str. 47-49. building 7. 128. MATE lab; 6# University of Sopron, Faculty of Forest Engineering, Institute of Environment and Nature Conservation, 9400, Sopron, Bajcsy Zs. u. 4.; 7# University of Sopron, Faculty of Forest Engineering, Institute of Forestry and Natural Resource Management, 9400, Sopron, Bajcsy Zs. u. 4.

P08 - Agricultural and Food Microbiology

BACTERIAL COMMUNITY OF THE GRAPEVINE IN CONVENTIONAL AND ORGANIC VINEYARDS IN BADACSONY

Utassy Kristóf¹, Kocsis Tamás József¹, Pomázi Andrea¹

1# Magyar Agrár- és Élettudományi Egyetem, Élelmiszertudományi és Technológiai Intézet, Élelmiszer-mikrobiológia, -higiéna és -biztonság Tanszék

P09 - Agricultural and Food Microbiology

A CLONING STRATEGY TO EXPRESS AFLATOXIN B₁ DEGRADING GENES OF *RHODOCOCCUS ERYTHROPOLIS* NI86/21 IN *R. JOSTII*

Judit Kosztik¹, József Kukolya¹, István Nagy¹

1# Eszterházy Károly Catholic University, Department of Research and Development, Eger

P10 - Agricultural and Food Microbiology

CHARACTERISTICS OF NITRIC OXIDE DISMUTASE (NOD) GENES IN PADDY SOILS UNDER DIFFERENT CLIMATIC GRADIENTS IN CHINA

Yi Liu¹, Dongliang Yao¹, Hongling Qin¹, Yanfan Liu¹, Linrong Han¹, Baoli Zhu¹

1# Institute of Subtropical Agriculture, Chinese Academy of Sciences, Changsha, China

P11 - Agricultural and Food Microbiology

WASTEWATER-BASED EPIDEMIOLOGICAL SURVEILLANCE OF RESPIRATORY PATHOGENS

Balázs Seres¹, Boglárka Pollák¹, Ábel Németh¹, Eszter Róka¹, Bernadett Khayer¹, Györgyné Lénárt¹, Bálint Izsák¹, Renáta Szolga¹, Mártha Vargha¹

1# National Centre for Public Health and Pharmacy

P12 - Agricultural and Food Microbiology

GENOMIC CHARACTERIZATION OF A MULTIDRUG-RESISTANT O23:H16-ST453 *ESCHERICHIA COLI* STRAIN CULTURED FROM BROILER CHICKEN FAECES IN HUNGARY

János Kiss¹, Balázs Libisch¹, Chioma Lilian Ozoaduche^{1,2}, Hedvig Fébel³, Marc Heyndrickx⁴, Mónika Szabó¹, Tibor Keresztény^{1,2}, Katalin Posta¹, Ferenc Olasz¹

1# Agrobiotechnology and Precision Breeding for Food Security National Laboratory, Institute of Genetics and Biotechnology, Hungarian University of Agriculture and Life Sciences, 2100 Gödöllő, Hungary; 2# Doctoral School of Biology, Hungarian University of Agriculture and Life Sciences, 2100 Gödöllő, Hungary; 3# Department of Obstetrics and Food Animal Medicine Clinic, University of Veterinary Medicine Budapest, Hungary; 4# Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Melle, Belgium

P13 - Agricultural and Food Microbiology

DETECTION OF SDHI FUNGICIDE RESISTANCE MARKERS IN *PODOSPHAERA XANTHII* INFECTING CUCURBITACEOUS CROPS IN HUNGARY

Katalin Borostyán^{1,2}, Ruth Rogers^{1,2}, Gyula Pinke³, Gábor M. Kovács^{1,2}, Márk Z. Németh^{1,2}

1# HUN-REN Centre for Agricultural Research, Plant Protection Institute, Department of Plant Pathology; Hungary; 2# Eötvös Loránd University, Department of Plant Anatomy, Hungary; 3# Széchenyi István University, Department of Water Management and Natural Ecosystems; Hungary

P14 - Agricultural and Food Microbiology
INVESTIGATION OF SUCCINATE DEHYDROGENASE INHIBITOR (SDHI) FUNGICIDES RESISTANCE IN GRAPE POWDERY MILDEW (ERYSIPHE NECATOR) POPULATIONS IN EGER VINEYARD, HUNGARY

† Zsolt Spitzmüller¹, Tibor Kiss¹, Xénia Karácsony-Pálfi¹, Levente Kiss^{1,2,3}, Kálmán Z. Váczy¹

¹Eszterházy Károly Catholic University, Food and Wine Research Institute, Eger, ²Centre for Agricultural Research, Plant Protection Institute, Budapest, ³Centre for Crop Health, University of Southern Queensland, Toowoomba, Australia

P15 - Agricultural and Food Microbiology
THE FUNGAL GENUS KALMUSIA IS ASSOCIATED WITH GRAPEVINE TRUNK DISEASE IN EGER, HUNGARY

Nikolett Molnár¹, Dóra Szabó¹, Ádám Novák¹, Xénia Pálfi¹, Kálmán Zoltán Váczy¹, Zoltán Karácsony¹

¹Eszterházy Károly Katolikus Egyetem

P16 - Agricultural and Food Microbiology
THREE HUNGARIAN HAZELNUT CLONES SHOW REDUCED POWDERY MILDEW SEVERITY FROM *ERYSIPHE CORYLACEARUM*

Klementina Kalmár¹, Márta Ladányi², Márk Z. Németh^{3,4}

¹Research Centre for Fruit Growing, Institute of Horticultural Science, Hungarian University of Agriculture and Life Sciences (MATE), Budapest, Hungary; ²Department of Applied Statistics, Institute of Mathematics and Basic Science, Hungarian University of Agriculture and Life Sciences (MATE), Budapest, Hungary; ³Plant Protection Institute, HUN-REN Centre for Agricultural Research, Budapest, Hungary; ⁴Department of Plant Anatomy, Institute of Biology, ELTE Eötvös Loránd University, Budapest, Hungary

P17 - Agricultural and Food Microbiology
MULTIPLEX PCR-BASED GENOTYPING OF *FUSARIUM* ISOLATES FOR PREDICTING MYCOTOXIN CONTAMINATION

Suhajda Ákos¹, Baka Erzsébet¹, Kriszt Balázs¹, Cserhádi Mátyás¹

¹MATE Akvakultúra és Környezetbiztonsági Intézet

P18 - Agricultural and Food Microbiology
INVESTIGATION OF STRUCTURAL STABILITY OF B1N680, A *SOLANUM LYCOPERSICUM* L.-DERIVED DEFENSIN

Papp Rebeka^{1,2}, Borics Attila³, Galgóczi László¹, Tóth Liliána¹

¹Szegedi Tudományegyetem, Természettudományi és Informatikai Kar, Biotechnológiai és Mikrobiológiai Tanszék, Szeged; ²Szegedi Tudományegyetem, Biológia Doktori Iskola, Szeged; ³HUN-REN Szegedi Biológiai Kutatóközpont, Biokémiai Intézet, Szeged

P19 - Agricultural and Food Microbiology

IMPACT OF ARBUSCULAR MYCORRHIZAL FUNGAL INOCULATION ON POWDERY MILDEW INFECTED TOMATO PLANTS

László Livia¹; Szentpéteri Viktor^{1,2}; Mayer Zoltán¹; Pintye Alexandra³; Posta Katalin^{1,2}
1# Institute of Genetics and Biotechnology, Department of Microbiology and Applied Biotechnology, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary, 2# Agrobiotechnology and Precision Breeding for Food Security National Laboratory, Institute of Genetics and Biotechnology, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary, 3# HUN-REN Centre for Agricultural Research, Plant Protection Institute, Department of Plant Pathology, Budapest, Hungary.

P20 - Agricultural and Food Microbiology

ARBUSCULAR MYCORRHIZAL FUNGI IN ENHANCING PLANT STRESS TOLERANCE

Szentpéteri Viktor^{1,2}, Mayer Zoltán¹, László Livia¹, Posta Katalin^{1,2}
1# Institute of Genetics and Biotechnology, Department of Microbiology and Applied Biotechnology, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary, 2# Agrobiotechnology and Precision Breeding for Food Security National Laboratory, Institute of Genetics and Biotechnology, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary.

P21 - Agricultural and Food Microbiology

OPEN-FIELD TRIALS OF MYCORRHIZAL AND BACTERIAL INOCULATION ON YIELD AND SOIL PARAMETERS IN SUNFLOWER, MAIZE, AND PEPPER PRODUCTION

Andrea Tímea Tóth^{1,2}, Katalin Posta^{1,2}
1# Hungarian University of Agriculture and Life Sciences, Institute of Genetics and Biotechnology, Department of Microbiology and Applied Biotechnology, Gödöllő; 2# Agri-biotechnology and Precision Breeding for Food Security National Laboratory, Gödöllő

P22 - Agricultural and Food Microbiology

THE EFFECT OF SHORT AND LONG-TERM WATER DEFICIT ON PHYSIOLOGICAL PERFORMANCE AND LEAF MICROBIOME OF DIFFERENT ROOTSTOCK AND SCION COMBINATIONS

Ramóna Biró-Kovács^{1,2}, József Geml^{1,3}, Ádám István Hegyi¹, Tibor Kiss¹, Richárd Golen¹, Dorina Veinémér⁴, Zsolt Zsófi⁴
1# Food and Wine Research Institute, Eszterházy Károly Catholic University, Eger, Hungary; 2# Pázmány Péter Catholic University, Faculty of Information Technology and Bionics, Budapest, Hungary; 3# HUN-REN-EKKE Lendület Environmental Microbiome Research Group, Eszterházy Károly Catholic University, Eger, Hungary; 4# Institute for Viticulture and Enology, Eszterházy Károly Catholic University, Eger, Hungary

P23 - Agricultural and Food Microbiology

EXPLORING THE OENOLOGICAL POTENTIAL OF NON-CONVENTIONAL YEAST STRAINS IN APPLE JUICE FERMENTATION

Szonja Takács¹, Hajnalka Csoma¹, László Attila Papp¹, Ida Miklós¹
1# University of Debrecen, Faculty of Science and Technology, Institute of Biotechnology, Department of Genetics and Applied Microbiology, Debrecen, Hungary

P24 - Agricultural and Food Microbiology

EVALUATING THE RESPONSES OF SOILBORNE FUNGAL COMMUNITIES TO ARTIFICIAL CANOPY GAPS OF DIFFERENT SHAPES AND SIZES IN CONTINUOUS-COVER FORESTRY SYSTEMS

József Geml¹, Bence Kovács², Gabriella Fintha¹, Flóra Tinya², Péter Ódor²

¹# Environmental Microbiome Research Group, Eszterházy Károly Catholic University, Eger, Hungary; ²# Institute of Ecology and Botany, Centre for Ecological Research, Vácrátót, Hungary

P25 - Agricultural and Food Microbiology

BOOSTING ANAEROBIC LIGNOCELLULOSE UTILIZATION VIA SYNTROPHIC INTERACTIONS

Annabella Juhász-Erdélyi¹, Etelka Kovács¹, Roland Wirth², Gergely Maróti², Zoltán Bagi^{1,2}, Kornél L. Kovács^{1,2}

¹# Department of Biotechnology and Microbiology, Faculty of Science and Informatics, University of Szeged; ²# Institute of Plant Biology, HUN-REN Biological Research Centre

P26 - Agricultural and Food Microbiology

AGRICULTURAL USE OF SPENT MUSHROOM COMPOST

Henrietta Allaga¹, Rita Büchner¹, András Varga¹, Ádám Bordé-Pavlicz¹, Dániel Hercegfalvi¹, Terézia Kovács², Judit Bajzát³, Nóra Bakos-Barczy³, Amanda Sándorné Szőke³, András Misz³, Csaba Csutorás³, András Szekeres¹, Mónika Varga¹, László Kredics¹, Csaba Vágvolgyi¹

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P27 - Clinical and Diagnostic Microbiology

ENHANCING STRAIN DISCRIMINATION IN *KLEBSIELLA PNEUMONIAE* MALDI TOF MS TYPING THROUGH BATCH EFFECT CORRECTION

Atieno, Faith Margaret¹, Melegh, Szilvia¹

¹# University of Pécs, Medical School

P28 - Bacteriology

REVERSAL OF MULTIDRUG RESISTANCE USING REPURPOSED DRUGS AS BACTERIAL EFFLUX PUMP INHIBITORS IN *ESCHERICHIA COLI* STRAINS

Nikoletta Szemerédi¹, Márta Nové¹, Danhui Heo¹, László Orosz¹, József Sóki¹, Gabriella Spengler¹

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P29 - Bacteriology

EFFECT OF ENTEROCIN 7420 ON INTESTINAL MICROBIOTA AND IMMUNITY OF MICE INFECTED WITH METHICILLIN-RESISTANT *KOCURIA VARIANS* R33/4

Natália Zábolyová^{1,2}, Emília Dvorožňáková³, Eva Bino¹, Radoslava Krištofová^{1,2}, Anna Kandričáková³, Ľubomíra Grešáková¹, Marcela Maloveská³, Andrea Lauková¹, Monika Pogány Simonová¹

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P30 - Bacteriology

EFFECT OF ENTEROCIN ENT7420 ON INTESTINAL MICROBIOTA, CAECAL ENZYMATIC ACTIVITY AND HEALTH IN BROILER RABBITS INFECTED WITH A METHICILLIN-RESISTANT *STAPHYLOCOCCUS EPIDERMIDIS* P3Tr2A STRAIN

Pogány Simonová Monika¹, Chrastinová Ľubica², Ščerbová Jana¹, Zábolyová Natália¹, Bino Eva¹, Plachá Iveta¹, Tokarčíková Katarína¹, Žitňan Rudolf², Lauková Andrea¹

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P31 - Bacteriology

THE EFFECT OF MUNDTICIN PRODUCED BY THE STRAIN *ENTEROCOCCUS MUNDTII* EM41/3 IN HORSES BREED NORIK FROM MURÁŇ

Pogány Simonová Monika¹, Focková Valentína¹, Styková Eva², Kosečková Mícenková Lenka³, Plachá Iveta¹, Grešáková Ľubomíra¹, Gancarčíková Soňa², Bino Eva¹, Valocký Igor², Miltko Renata⁴, Belzecki Grzegorz⁴, Lauková Andrea¹

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P32 - Bacteriology

ASSOCIATION BETWEEN VIRULENCE FACTORS AND TRANSMISSIBLE PATHOGENICITY POTENTIAL IN ENTEROCOCCI FROM WILD ROE DEER

Eva Bino¹, Andrea Lauková¹

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P33 - Bacteriology

GENOMIC INVESTIGATION OF EUROPEAN *ACINETOBACTER BAUMANNII* ST2 HIGH-RISK CLONE

David Hummel¹

¹# Semmelweis University

P34 - Bacteriology

LONG-TERM SURVIVAL OF *FRANCISELLA TULARENSIS* SUBSP. *HOLARCTICA* LVS WITHIN AMOEBAE

Linda Jerinić¹, Andreja Zubković¹, Ina Viduka¹, Maša Antonić¹, Mirna Mihelčić¹, Marina Santić^{1,2}

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P35 - Bacteriology

COMPARATIVE ANALYSES OF PHENOTYPIC AND GENOTYPIC ANTIBIOTIC SUSCEPTIBILITY OF *PASTEURELLA MULTOCIDA*

Krisztina Pintér¹, Marianna Domán¹, Enikő Wehmann¹, László Makrai², Tibor Magyar¹

¹# HUN-REN Veterinary Medical Research Institute, Budapest, Hungary; ²# Autovakcina Kft., Hungary

P36 - Bacteriology

EVALUATION OF ANTIBIOTIC RESISTANCE IN *RIEMERELLA ANATIPESTIFER* STRAINS DERIVED FROM POULTRY IN HUNGARY

Zsófia Turóczy¹, Krisztina Pintér¹, Enikő Wehmann¹, Tibor Magyar^{1,2}, Marianna Domán^{1,2}

¹# HUN-REN Veterinary Medical Research Institute, Budapest, Hungary; ²# National Laboratory of Infectious Animal Diseases, Antimicrobial Resistance, Veterinary Public Health and Food Chain Safety, University of Veterinary Medicine, Budapest, Hungary

P37 - Bacteriology

POLOXAMER MICELLES FOR THE DELIVERY OF PEPTIDE-BASED DRUGS AND ANTIGENS

Horváti Kata¹

¹# HUN-REN Research Centre for Natural Sciences; ²# Laboratory of Interfaces and Nanostructures, Eötvös Loránd University

P38 - Virology

THE SEROPREVALENCE OF WEST NILE VIRUS IN POULTRY IN CROATIA IN 2024

Ivana Rončević¹, Mirta Balenović¹, Tajana Amšel Zelenika¹, Ljubo Barbić², Tatjana Vilibić Čavlek³, Maja Bogdanić³, Vladimir Savić¹

1# Croatian veterinary institute; 2# Faculty of Veterinary Medicine University of Zagreb; 3# Croatian Institute of Public Health

P39 - Virology

CODING-COMPLETE GENOME SEQUENCE DETERMINATION OF AN INFECTIOUS LARYNGOTRACHEITIS VIRUS FROM TRACHEAL MUCOSA SAMPLE SHIPPED ON FTA CARD

Renata Varga-Kugler¹, Zalan Homonnay¹, Istvan Kiss¹

1# Ceva-Phylaxia Ltd.

P40 - Plant Virology

IMPORTANT VIRUS AND VIRUS-LIKE DISEASES IN SLOVENIAN VINEYARDS AND POSSIBILITIES FOR THEIR MANAGEMENT

Irena Mavrič Pleško¹, Ivan Žežlina², Eva Kovačec¹, Nika Krivec¹, Aljoša Beber¹, Barbara Grubar¹, Janja Lamovšek¹, Julija Polanšek¹, Saša Širca¹

1# Agricultural Institute of Slovenia, Hacquetova ulica 17, Ljubljana, Slovenia; 2# Institute of Agriculture and Forestry Nova Gorica, Pri Hrastu 18, Nova Gorica, Slovenia

P41 - Plant Virology

TRACKING APHID-TRANSMITTED VIRUSES IN INVASIVE WEEDS: PLANT HOSTS OR INSECT CONTAMINATION?

Lilla Dorottya Péri, Zsuzsanna Nagyné Galbács, Éva Várallyay

Hungarian University of Agriculture and Life Sciences, Institute of Plant Protection, Department of Plant Pathology, Genomics Research Group, HU-2100 Godollo, Szent-Gyorgyi Albert Str. 4, Hungary

P42 - Immunology and Parasitology

ROLE OF THE HEAT SHOCK TRANSCRIPTION FACTOR HSF-1 IN THE INTRACELLULAR PATHOGEN RESPONSE OF THE NEMATODE *CAENORHABDITIS ELEGANS*

Viktor Vázsony Vincze¹, Saqib Ahmed¹, Márton Kovács¹, Dániel Kovács¹, Tibor Vellai^{1,2}, János Barna^{2,3}

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P43 - Environmental Microbiology and Biotechnology
THE TAXONOMIC DIVERSITY OF PROKARYOTIC COMMUNITIES IN PERMAFROST SOIL ECOSYSTEMS IN PATAGONIA, CHILE

Viktória Faragó¹, Andrea Kériné Dr. Borsodi¹, Balázs Nagy¹

1# Department of Microbiology, Institute of Biology, ELTE, Eötvös Loránd University, Budapest 1117, Hungary

P44 - Environmental Microbiology and Biotechnology
TOWARDS IMPROVED FUNGAL SOIL REMEDIATION: ASSESSING DRIVERS OF MYCELIAL GROWTH OF WHITE-ROT FUNGUS *P. OSTREATUS*

Krisztina Emilia Hódosi^{1,2}, Lukas Y. Wick¹

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P45 - Environmental Microbiology and Biotechnology
UNRAVELING NATIVE MICROBIAL COMMUNITIES AND BIOREMEDIATION DYNAMICS IN HYDROCARBON-CONTAMINATED AQUIFERS: EVIDENCE FOR SITE-SPECIFIC ADAPTATION

Erzsébet Baka¹, Renáta Ábrahám¹, Emma Bajzák¹, Andrea Csépanyi¹, Balázs Kriszt², András Tánácsics¹

1# Department of Molecular Ecology, Hungarian University of Agriculture and Life Sciences, Institute of Aquaculture and Environmental Safety, Páter Károly u. 1., 2100, Gödöllő, Hungary; 2# Department of Environmental Toxicology, Hungarian University of Agriculture and Life Sciences, Institute of Aquaculture and Environmental Safety, Páter Károly u. 1., 2100, Gödöllő, Hungary

P46 - Environmental Microbiology and Biotechnology
POTENTIAL OF ENRICHMENT CULTURES IN THE BIOREMEDIATION OF GROUNDWATER CONTAMINATED WITH MTBE

Márton Pápai¹, Erzsébet Baka¹, Renáta Ábrahám¹, Andrea Csépanyi¹, Balázs Kriszt², András Tánácsics¹

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P47 - Environmental Microbiology and Biotechnology
SYNGAS FERMENTATION

Márk Szuhaj^{1,2}, Roland Wirth^{1,2}, Gergely Maróti^{2,3}, Kornél L. Kovács¹, Zoltán Bagi¹

1# University of Szeged, Department of Biotechnology and Microbiology, Szeged, Hungary; 2# Institute of Plant Biology, HUN-REN Biological Research Centre, Szeged; 3# Department of Aquatic Environmental Sciences, Faculty of Water Sciences, Ludovika University of Public Service, Baja, Hungary

P48 - Environmental Microbiology and Biotechnology

**ASPERGILLUS FLAVI AND NIGRI CONCENTRATIONS IN OUTDOOR AIR IN HUNGARY
– PRELIMINARY DATA OF A 16-YEAR-LONG OBSERVATION**

Zsófia Tischner¹, Donát Magyar², Anna Páldy², Edit Kaszab¹, Csaba Dobolyi¹, Ádám Leelőssy³

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P49 - Environmental Microbiology and Biotechnology

COMPARATIVE ANALYSIS OF RHIZOSPHERE BACTERIAL AND FUNGAL COMMUNITIES IN THREE MENTHA SPECIES

Yasmine Wazzani^{1,2}, Szilvia Tavaszi-Sárosi³, Katalin Posta¹, Ferenc Olasz¹, Ákos Juhász¹

1# Agrobiotechnology and Precision Breeding for Food Security National Laboratory, Hungarian University of Agriculture and Life Sciences, Institute of Genetics and Biotechnology, Gödöllő, Hungary; 2# Doctoral School of Biological Sciences, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary; 3# Institute of Horticultural Science, Department of Medicinal and Aromatic Plants, Hungarian University of Agriculture and Life Sciences, Budapest, Hungary

P50 - Environmental Microbiology and Biotechnology

**THE POSSIBLE MECHANISM OF THE ESCA DISEASE-PROMOTING EFFECT OF
AUREOBASIDIUM PULLULANS**

Molnár Nikolett¹, Szabó Dóra¹, Novák Ádám¹, Pálfi Xénia¹, Gomba-Tóth Adrienn¹, Karácsony Zoltán¹, Váczy Kálmán Zoltán¹

1# Eszterházy Károly Katolikus Egyetem

P51 - Mycology

**ANTIFUNGAL SUSCEPTIBILITY OF *MALASSEZIA PACHYDERMATIS* ISOLATES FROM
COMPANION ANIMALS AND GENOMIC INSIGHTS INTO RESISTANCE MECHANISMS**

Marianna Domán^{1,2}, Dávid Első³, Klaudia Till⁴, Krisztina Pintér¹, Enikő Wehmann¹, Enikő Fehér^{4,2}, Tibor Magyar^{1,2}

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P52 - Mycology

**IN VIVO EFFICACY OF REZAFUNGIN, ANIDULAFUNGIN, CASPOFUNGIN AND
MICAUFUNGIN AGAINST THE FIFTH CLADE OF *CANDIDA (CANDIDOZYMA) AURIS***

Gergely Udvarhelyi¹, Jacques F. Meis², Dávid Balázsi¹, Jeffrey B. Locke³, Lajos Forgács¹, Renátó Kovács¹, Zoltán Tóth¹, Awid Adnan¹, László Majoros¹

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P53 - Mycology

THE IMPACT OF THE YAP1 TRANSCRIPTION FACTOR ON THE VIRULENCE OF *CANDIDA AURIS*

Szücs Molli¹, Király Szabina¹, Pápai Ildikó¹, Papp László Attila², Balázs Dávid³, Oláh Attila⁴, Pázmándi Kitti Linda⁵, Porubská Sofia¹, Pócsi István^{1,6}, Benkő Zsigmond¹

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P54 - Mycology

VIRULENCE-ASSOCIATED TRAITS IN *MUCOR LUSITANICUS*

Szebenyi Csilla¹, Kocsubé Sándor², Molnár Anna¹, Kiss Karina¹, Sinka Rita³, Németh Dóra³, Szegedi Botond¹, Tammam Abu Saleem K. Siliman¹, Vágvolgyi Csaba², Papp Tamás¹

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P55 - Mycology

INVESTIGATION OF SPORE SURFACE PROTEINS IN *MUCOR LUSITANICUS* TO ESTABLISH VIRULENCE FACTORS

Tammam Abu Saleem^{1,2}, Anna Molnár^{1,2}, Bence Rafael^{1,2}, Karina Kiss^{1,2}, Botond Szeged^{1,2}, Csilla Szebenyi^{1,2}, Csaba Vágvolgyi^{1,2}, Rita Sinka³, Dóra Németh³, Mónika Homa^{1,2}, Tamás Papp^{1,2}

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P56 - Mycology

FUNCTIONAL CHARACTERIZATION OF SPORE SURFACE PROTEINS IN *MUCOR LUSITANICUS*: CORRELATIONS WITH VIABILITY AND PATHOGENICITY

Karina Kiss^{1,2}, Csilla Szebenyi^{1,2}, Anna Molnár^{1,2}, Abu Saleem Tammam Khaliefeh Siliman^{1,2}, Tamás Polgár³, Dóra Németh⁴, Rita Sinka⁴, Tamás Papp¹

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P57 - Mycology

REVEALING THE FUNCTION OF HYDROPHOBIC SURFACE BINDING PROTEINS IN THE PATHOGENICITY OF *MUCOR LUSITANICUS*

Anna Molnár^{1,2}, Vanda Kovács^{1,2}, Bence Rafael^{1,2}, Rita Sinka³, Dóra Németh³, Ildikó Domonkos⁴, Csaba Vágvölgyi¹, Csilla Szebenyi^{1,2}, Tamás Papp^{1,2}

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P58 - Mycology

CHARACTERIZATION OF THE ZIPV TRANSCRIPTION FACTOR IN *ASPERGILLUS FUMIGATUS*

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P59 - Mycology

THE ROLE OF THE YAP1 GENE IN THE STRESS RESPONSE OF *ASPERGILLUS FUMIGATUS*

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P60 - Mycology

BbATfA PLAYS AN IMPORTANT ROLE IN THE GROWTH, STRESS RESPONSE AND CONIDIATION OF THE INSECT PATHOGENIC FUNGUS *BEAUVERIA BASSIANA*

Beatrix Kocsis¹, István Pócsi^{2,1}, Éva Leiter^{2,1}

¹# HUN-REN-DE Fungal Stress Biology Research Group, Debrecen; ²# University of Debrecen, Department of Molecular Biotechnology and Microbiology, Debrecen

P61 - Mycology

HIGH-THROUGHPUT VIABILITY ASSAY FOR STUDYING SOIL AND HOST PREFERENCE PATTERNS OF DARK SEPTATE ENDOPHYTES

Petra Lengyel¹, Fruzsina Matolcsi^{1,2}, Szilvia Bősze^{3,4}, Zoltán Szalai^{5,6}, Anna Nagy⁵, Gábor Herczeg^{7,8}, Gábor M Kovács^{1,2,7}

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P62 - Mycology

FIRST CONFIRMED OCCURRENCE OF *UROMYCES MUSCARI* ON GRAPE HYACINTH IN HUNGARY

Orsolya Molnár¹, Réka Albert², Lóránt Király¹, András Künstler¹, József Fodor¹, Ildikó Schwarczinger¹

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P63 - Mycology

NEW AND RECENTLY DESCRIBED ROOT-COLONIZING ENDOPHYTIC FUNGAL TAXA FROM GRAMINEOUS PLANTS IN SEMIARID GRASSLANDS AND AGRICULTURAL FIELDS

Alexandra Pintye^{1,2}, Ildikó Imrefi², Fruzsina Matolcsi^{1,2}, Orsolya Molnár¹, Tamás Arendás³, Ruth Rogers², Péter Sasvári², Imre Boldizsár², Gábor M. Kovács^{1,2,4}

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P64 - Mycology

SPECIES DISTRIBUTION AND ANTIMICROBIAL SUSCEPTIBILITY OF DERMATOPHYTES ISOLATED AT THE UNIVERSITY OF DEBRECEN

Maryanne Guchu¹, Bálint Farkas^{1,2,3}, Ágnes Jakab^{1,2}, Renátó Kovács^{1,2}, László Majoros^{1,2}, Zoltán Tóth^{1,2}

¹, Department of Medical Microbiology, Faculty of Medicine, University of Debrecen, ², Medical Microbiology, Clinical Centre, University of Debrecen ³, Doctoral School of Pharmaceutical Sciences, University of Debrecen

Tuesday, October 7th, Lecture Hall I.

Bacteriology & Clinical and Diagnostic Microbiology

Chairpersons: Orsolya Dobay and László Majoros

9:00 - 9:15

DETAILED PHENOTYPIC CHARACTERIZATION OF LYTIC ENTEROBACTERIAL PHAGES ISOLATED FROM HUNGARIAN LIVESTOCK

Andrea Béres¹, Dávid Hodunov¹, Domonkos Sváb¹

1# HUN-REN Veterinary Medical Research Institute, 1143, Budapest, Hungária körút 21., Hungary

9:15 - 9:30

EXAMINATION OF DIFFERENT STAPHYLOCOCCAL SPECIES ISOLATED FROM SONGBIRDS AND THEIR NESTBOXES

Bettina Kiss¹, Andrea Horváth¹, Orsolya Dobay¹

1# Semmelweis University, Institute for Medical Microbiology

9:30 - 9:45

CLARIFYING AND DETAILING THE ROLES OF CFXA GENE VARIANTS IN B-LACTAM/ B-LACTAMASE INHIBITOR COMBINATION RESISTANCE OF *BACTEROIDES* ISOLATES

Danhui Heo¹, József Sóki¹

1# Department of Medical Microbiology, Albert Szent-Györgyi Health Center, Albert Szent-Györgyi Medical School, University of Szeged

9:45 - 10:05

COMPARATIVE EVALUATION OF BIOFIRE® FILMARRAY® PANELS AND CONVENTIONAL CULTURE FOR RAPID MICROBIOLOGICAL DIAGNOSIS

Bence Balázs¹, László Majoros¹

1# Department of Medical Microbiology, Faculty of Medicine, University of Debrecen

10:05 - 10:20

SELECTIVE AND CASCADE REPORTING OF ANTIMICROBIAL RESISTANCE IN CLINICAL SETTING

Bence Balázs¹, László Majoros¹

1# Department of Medical Microbiology, Faculty of Medicine, University of Debrecen

10:30 - 10:45

APPLICATION OF RAMAN SPECTROSCOPY FOR PHENOTYPIC DIFFERENTIATION OF CARBAPENEM-RESISTANT *KLEBSIELLA PNEUMONIAE*

Sajerli Bence¹, Sarkadi-Nagy Ágnes¹, Katona Gábor¹, Burián Katalin¹, Orosz László¹

¹# University of Szeged

10:45 - 11:05

MOLECULAR EPIDEMIOLOGY OF *M. TUBERCULOSIS* STRAINS USING OXFORD NANOPORE SEQUENCING

Viktória Szél, Lilla Lőrinczi

National Reference Laboratory for Mycobacteriology, ECDC Operational Contact Point for Microbiology – Tuberculosis, National Koranyi Institute for Pulmonology

11:05 - 11:20

PROBIOTIC ORIGINS AND ANTIFUNGAL RESISTANCE IN CLINICAL *SACCHAROMYCES CEREVISIAE* ISOLATES FROM A TERTIARY CLINICAL CENTER IN CENTRAL EUROPE

Andrea Harmath^{1,2}, Bálint Németh^{3,4}, László Majoros^{1,5}, István Pócsi³, Valter Péter Pfliegler³, Renátó Kovács^{1,5}

¹# Department of Medical Microbiology, Faculty of Medicine, University of Debrecen, Debrecen, Hungary; ²# Doctoral School of Pharmaceutical Sciences, University of Debrecen, Debrecen, Hungary; ³# Department of Molecular Biotechnology and Microbiology, University of Debrecen, Debrecen, Hungary; ⁴# Doctoral School of Nutrition and Food Science, University of Debrecen, Debrecen, Hungary; ⁵# Medical Microbiology, Clinical Centre, University of Debrecen, Debrecen, Hungary

11:20 - 11:35

SPECIES DISTRIBUTION AND RISK FACTORS OF NON-ALBICANS CANDIDAEMIA IN A HUNGARIAN TERTIARY CARE CENTRE

Kovács Renátó^{1,2}, Harmath Andrea^{1,3}, Kovács Fruzsina^{1,2,3}, Balla Noémi^{1,2,3}, Jakab Ágnes^{1,2}, Majoros László^{1,2}, Tóth Zoltán^{1,2}

¹# Department of Medical Microbiology, Faculty of Medicine, University of Debrecen, 4032 Debrecen, Hungary; ²# Medical Microbiology, Clinical Centre, University of Debrecen, 4032 Debrecen, Hungary; ³# Doctoral School of Pharmaceutical Sciences, University of Debrecen, 4032 Debrecen, Hungary

Environmental Microbiology and Biotechnology – Session II.

Chairpersons: Balázs Vajna-Ferenczy and Erzsébet Baka

9:00 - 9:15

COMPREHENSIVE ANALYSIS OF ZEARELENONE EXPOSURE AND ITS MOLECULAR EFFECTS IN *RHODOCOCCUS PYRIDINIVORANS* K404

Renáta Ábrahám¹, Mátyás Cserhádi¹, Csilla Sörös², Zsolt Csenki-Bakos³, Cintia Bartucz³, Péter Urbán⁴, Bence Gálik⁴, József Kun⁴, Judit Háhn⁵, Balázs Kriszt⁵, Erzsébet Baka¹, András Táncsics¹

1# Department of Molecular Ecology; Institute of Aquaculture and Environmental Safety, Hungarian University of Agriculture and Life Sciences, Gödöllő; 2# Department of Food Chemistry and Analytical Chemistry, Institute of Food Science and Technology, Hungarian University of Agriculture and Life Sciences, Budapest; 3# Department of Environmental Toxicology; Institute of Aquaculture and Environmental Safety, Hungarian University of Agriculture and Life Sciences, Gödöllő; 4# Szentágothai Research Centre, University of Pécs, Pécs; 5# Department of Environmental Safety; Institute of Aquaculture and Environmental Safety, Hungarian University of Agriculture and Life Sciences, Gödöllő

9:15 - 9:30

NEW BIOLOGICAL SOLUTIONS BY THE APPLICATION OF BIOACTIVE PEPTAIBOLS

Dóra Balázs¹, Tamás Marik¹, Chetna Tyagi¹, Ákos Rozsnyói^{1,2}, Gergő Terna^{1,2}, Fanni Kovács^{1,2}, András Szekeres¹, Csaba Vágvolgyi¹, Tamás Papp¹, László Kredics¹

1# Department of Biotechnology and Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary; 2# Doctoral School of Biology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary

9:30 - 9:45

UPGRADING SPENT OYSTER MUSHROOM SUBSTRATE FOR POTENTIAL SOIL BIOREMEDIATION: EFFECTS OF POST-HARVEST TREATMENTS

Csaba László Maller¹, Lóránt Hatvani², Adrienn Nagy², Sebastian Pitzschke³, Tobias Krebs³, Balázs Vajna¹

1# Department of Microbiology, Eötvös Loránd University, Pázmány Péter sétány 1/C, 1117 Budapest, Hungary; 2# Pilze-Nagy Ltd., Talfája tanya 47/B, H-6000 Kecskemét, Hungary; 3# ERGO Umweltinstitut GmbH., Lauensteiner Straße 42, 01277 Dresden, Germany

9:45 - 10:00

QUORUM SENSING AND BIOFILM FORMATION: DUAL DRIVERS OF VIRULENCE IN *PHAEOMONIELLA CHLAMYDOSPORA*

Ádám Novák¹, Nikolett Molnár¹, Adrienn Gomba-Tóth¹, Dóra Szabó¹, Zoltán Váczy Kálmán¹, Zoltán Karácsony¹

1# Food Science and Oenology Knowledge Centre, Eszterházy Károly Catholic University, Eger, Hungary

10:00 - 10:15

IN THE SHADOW OF THE SOLAR FLARE: A STUDY OF ANTIOXIDANT PROTECTION DURING LOW-INTENSITY, SHORT-DURATION PROTON IRRADIATION IN *ASPERGILLUS NIDULANS*

Ildikó Vig¹, Máté Szarka^{1,2}, András Fenyvesi¹, Barnabás Gila³, Károly Antal⁴, Zita Szikszai¹, István Pócsi^{3,5}, Tamás Emri^{3,5}

1# HUN-REN Institute for Nuclear Research (HUN-REN ATOMKI), 4026 Debrecen, Hungary; 2# Vitrolink Ltd., 4033 Debrecen, Hungary; 3# Department of Molecular Biotechnology and Microbiology, University of Debrecen, 4032 Debrecen, Hungary; 4# Department of Zoology, Eszterházy Károly Catholic University, 3300 Eger, Hungary; 5# HUN-REN-UD Fungal Stress Biology Research Group, 4032 Debrecen, Hungary

Tuesday, October 7th, Lecture Hall II.

Agricultural and Food Microbiology– Session I.

Chairpersons: Pusztahelyi, Tünde and Csilla Szebenyi

10:45 - 11:00

CHARACTERISATION OF ENDEMIC ASPERGILLUS FLAVUS STRAINS IN IN VITRO AND MICROPLOT FIELD EXPERIMENTS

Pusztahelyi, Tünde¹, Kovács, Szilvia¹, Mwalungha, Heltan, M.², Molnár, Krisztina³, Dobos, Attila³, Pfliegler, Valter⁴, Pócsi, István⁴

1# Food and Environmental Toxicology Research Group, Central Laboratory of Agricultural and Food Products, Faculty of Agricultural and Food Sciences and Environmental Management, University of Debrecen, Debrecen; 2# Doctoral School of Food Science and Nutrition, Faculty of Agricultural and Food Sciences and Environmental Management, University of Debrecen, Debrecen; 3# Centre for Precision Farming R&D Services, Faculty of Agricultural and Food Sciences and Environmental Management, University of Debrecen; 4# Department of Molecular Biotechnology and Microbiology, Institute of Biotechnology, Faculty of Science and Technology, University of Debrecen, Debrecen

11:00 - 11:15

AWARD-WINNING WINES MADE WITH INTERSPECIFIC SACCHAROMYCES YEASTS

Antunovics Zsuzsa¹, Kállai Zoltán¹, Sipiczki Mátyás¹

1# University of Debrecen

11:15 - 11:30

COMPARISON OF THE CORE MICROBIOME AND INDICATOR SPECIES OF VINEYARDS AND SURROUNDING ROSACEAE FRUIT SPECIES

Lepres Luca Annamária^{1,2}, Molnár Anna¹, Geiger Adrienn^{1,3}, Váczy Kálmán Zoltán¹, Geml József³

1# Food and Wine Research Centre, Eszterházy Károly Catholic University; 2# Doctoral School of Environmental Sciences, Hungarian University of Agriculture and Life Sciences; 3# HUN-REN-EKKE Lendület Environmental Microbiome Research Group, Eszterházy Károly Catholic University

11:30 - 11:45

DROUGHT SHAPES FUNGAL COMMUNITIES OF GRAPEVINE LEAVES IN THE EGER WINE REGION

Anna Molnár^{1,2}, Zsolt Zsófi³, Luca Annamária Lepres^{1,2,4}, Adrienn Geiger^{1,2}, Szabolcs Villangó³, Adrienn Mária Tóth³, Xénia Pálfi¹, Miklós Lovas¹, Nóra Bakos-Barczi¹, Richárd Nagy¹, Glodia Kgobe^{2,4}, Carla Mota Leal^{2,4}, György Lőrincz³, Kálmán Zoltán Váczy¹, József Geml^{1,2}

1# Research and Development Center, Eszterházy Károly Catholic University, Leányka u. 8, Eger 3300, Hungary; 2# Environmental Microbiome Research Group, Eszterházy Károly Catholic University, Leányka u. 8, Eger 3300, Hungary; 3# Institute for Viticulture and Enology, Faculty of Natural Sciences, Eszterházy Károly Catholic University, Leányka u. 14, 3300 Eger, Hungary; 4# Doctoral School of Environmental Sciences, Hungarian University of Agricultural and Life Sciences, Páter K. u. 1, 2100 Gödöllő, Hungary

11:45 - 12:00

BACTERIOPHAGES AND BLACK ROT OF BRASSICAS: TOWARDS ALTERNATIVE CONTROL STRATEGIES

Aljoša Beber¹, Janja Lamovšek¹, Irena Mavrič Pleško¹

1# Agricultural institute of Slovenia, Plant protection department, Hacquetova ulica 17, 1000 Ljubljana, Slovenia

12:00 - 12:15

CAN PHOTOSYNTHETIC GREEN MICROALGAL CULTURES HELP REDUCE THE NEGATIVE EFFECTS OF SALT STRESS ON PLANTS?

Helga Fanni Schubert^{1,2}, József Kutasi², Tamás Felföldi^{3,4}, Katalin Solymosi¹

1# Department of Plant Anatomy, ELTE Eötvös Loránd University, Budapest, Hungary; 2# Holoferm Kft., Kerecsend, Hungary; 3# Department of Microbiology, ELTE Eötvös Loránd University, Budapest, Hungary; 4# Institute of Aquatic Ecology, HUN-REN Centre for Ecological Research, Budapest, Hungary

Virology– Session I.

Chairpersons: Urška Jamnikar-Ciglencčki and Tatjana Vilibić-Čavlek

13:00 - 13:25

FOODBORNE VIRUSES: EMERGING CHALLENGES IN FOOD SAFETY

Urška Jamnikar-Ciglencčki¹

1# Institute of Food Safety, Feed and Environment, Veterinary Faculty University of Ljubljana

13:25 - 13:40

HEPATITIS A VIRUS INFECTIONS WITH GENETICALLY RELATED STRAINS IN FOUR NEIGHBORING COUNTRIES

Ágnes Dencs¹, Andrea Hettmann¹, Ágnes Barna-Lázár¹, Zsuzsanna Molnár¹, Emese Kozma¹, Erzsébet Barcsay¹

1# National Center for Public Health and Pharmacy

13:40 - 14:00

HEPATITIS E VIRUS TIMELY DETECTION IN THE TERTIARY CARE ACADEMIC HOSPITAL AT THE UNIVERSITY OF DEBRECEN

Eszter Gyöngyösi¹, Brigitta László¹, Anita Szalmás¹, György Veress¹, Eszter Csoma¹, József Kónya¹

1# Department of Medical Microbiology, Faculty of Medicine, University of Debrecen

14:00 - 14:25

TEMPORAL, SPATIAL AND AGE-RELATED TRENDS OF CYTOMEGALOVIRUS SEROPREVALENCE IN CHILDBEARING-AGED WOMEN IN CROATIA

Tatjana Vilibić-Čavlek^{1,2}, Klara Barbić³, Tadej Ježek², Ljiljana Milašinčić¹, Ljiljana Antolašić¹, Sara Glavaš¹, Marta Batur¹, Ana Sanković⁴, Maja Bogdanić^{1,2}

1 Department of Virology, Croatian Institute of Public Health, Zagreb, Croatia, 2 School of Medicine, University of Zagreb, Zagreb, Croatia, 3 Statistics Concentrator, Harvard University, Cambridge, MA, USA, 4 Department of Microbiology, University of Applied Health Sciences, Zagreb, Croatia

Tuesday, October 7th, Lecture Hall II.

Mycology & Industrial Microbiology– Session I.

Chairpersons: István Molnár and István Pócsi

13:30 - 13:55

BIOCOLORS - SYNTHETIC BIOLOGY TO PRODUCE *CORTINARIUS* ANTHRAQUINONE PIGMENTS

Istvan Molnar^{1,2}, Pradhuman Jetha¹, Dominik Mojzita¹, Hannu Maaheimo¹, Gopal Peddinti¹, Mervi Toivari¹, Merja Penttilä¹

1# VTT Technical Research Centre of Finland; 2# The University of Arizona

13:55 - 14:10

THE BZIP-TYPE TRANSCRIPTION FACTOR ATFA ORCHESTRATES KEY CELLULAR PROCESSES DURING ASEXUAL DEVELOPMENT IN *ASPERGILLUS NIDULANS*

Pócsi István^{1,2}, Márton Miskei¹, Sandugash Ibragimova¹, Beatrix Kocsis¹, Tibor Nagy³, Hee-Soo Park⁴, Tamás Emri^{1,2}, Jae-Hyuk Yu⁵, Éva Leiter^{1,2}

1# HUN-REN-UD Fungal Stress Biology Research Group, Debrecen, Hungary; 2# Department of Molecular Biotechnology and Microbiology, Institute of Biotechnology, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary; 3# Department of Applied Chemistry, Institute of Chemistry, Faculty of Science and Technology, University of Debrecen, Debrecen, Hungary; 4# School of Food Science and Biotechnology, Kyungpook National University, Daegu, Republic of Korea; 5# Department of Bacteriology, University of Wisconsin-Madison, Madison, Wisconsin, USA

14:10 - 14:25

BZIP-TYPE TRANSCRIPTION FACTORS IN *ASPERGILLUS FLAVUS* AND *FUSARIUM VERTICILLIOIDES*

Mondok Ágnes Kata¹, Harapó Dóra¹, Umair Kamal Kahn¹, Dancs András¹, Leiter Éva^{1,2}, Pócsi István^{1,2}, Boros Bence¹

1# Debreceni Egyetem; 2# HUN-REN-DE Gomba Stresszbiológiai Kutatócsoport

14:25 - 14:40

PHYLOGENOMICS AND TAXOGENOMICS IN YEAST RESEARCH

Sipiczki Mátyás¹

1# Department Of Genetics and Applied Microbiology

14:40 - 14:55

SYNERGISTIC ANTIFUNGAL ACTIVITY OF CASPOFUNGIN AND POSACONAZOLE AGAINST *CANDIDA AURIS* BIOFILMS

Fruzsina Kovács^{1,2,3}, Andrea Harmath^{1,2,3}, Noémi Balla^{1,2,3}, Dávid Balázsi^{1,2,3}, Renátó Kovács^{1,2,3}, Ágnes Jakab^{1,2,3}

1# Medical Microbiology; 2# Clinical Centre; 3# University of Debrecen

14:55 - 15:10

THE IN VITRO INTERACTION OF DEFERIPRONE WITH ANTIFUNGAL AGENTS AGAINST *C. AURIS*

Zoltán Tóth^{1,2}, Bálint Farkas^{1,2,3}, Ágnes Jakab^{1,2}, László Majoros^{1,2}, Renátó Kovács^{1,2}

1# Department of Medical Microbiology, Faculty of Medicine, University of Debrecen; 2# Medical Microbiology, Clinical Centre, University of Debrecen; 3# Doctoral School of Pharmaceutical Sciences, University of Debrecen

Virology– Session II.

Chairpersons: Sunčanica Ljubin-Sternak and Eszter Gyöngyösi

15:00 - 15:25

RESPIRATORY VIRAL INFECTIONS IN HOSPITALIZED CHILDREN IN CROATIA: A PRE-PANDEMIC STUDY

Sunčanica Ljubin-Sternak¹

1# Teaching Institute of Public Health "Dr. Andrija Štampar"

15:25 - 15:40

CORRELATING MORTALITY PEAKS WITH RESPIRATORY VIRUS EMERGENCE: A BLUEPRINT FOR IDENTIFYING HISTORICAL PANDEMICS

Bazarragchaa Anu^{1,2}, Zsichla Levente^{1,2}, Lemey Philippe³, Ferenci Tamás^{4,2}, Mokos Judit^{1,2}, Müller Viktor^{1,2}

1# Eötvös Loránd University, Budapest, Hungary; 2# National Laboratory for Health Security, Budapest, Hungary; 3# KU Leuven, Leuven, Belgium; 4# Óbuda University, Budapest, Hungary

15:40 - 15:55

EVALUATING ENTEROVIRUS DIVERSITY AMONG SYMPTOMATIC PATIENTS IN HUNGARY DURING AND AFTER EASING THE COVID-19 LOCKDOWN

Nóra Deézsi-Magyar¹, Gyula Zsidei¹, Norbert Kiss¹, Bereniké Novák¹, Marianna Mezősi-Csaplár¹, Katalin Réka Tarcsai¹, Adrienne Lukács¹, Erzsébet Barcsay¹, Katalin Szomor¹, Mária Takács^{1,2}

1# Department of Microbiological Reference Laboratories, National Center for Public Health and Pharmacy, 1097 Budapest, Hungary; 2# Institute of Medical Microbiology, Semmelweis University, 1089 Budapest, Hungary

15:55 - 16:10

SURVEILLANCE OF SWINE CORONAVIRUSES IN HUNGARY

Dóra Máté¹, Eszter Kaszab^{1,2,3}, Barbara Igriczi⁴, Gyula Balka⁴, Enikő Fehér^{1,2,5}

1# Department of Microbiology and Infectious Diseases, University of Veterinary Medicine Budapest, Hungária krt. 23-25, H-1143 Budapest, Hungary; 2# National Laboratory for Infectious Animal Diseases, Antimicrobial Resistance, Veterinary Public Health and Food Chain Safety, István utca 2, H-1078 Budapest, Hungary; 3# One Health Institute, Faculty of Health Sciences, University of Debrecen, Nagyerdei krt. 98, H-4032 Debrecen, Hungary; 4# Department of Pathology, University of Veterinary Medicine Budapest, István utca 2, H-1078 Budapest, Hungary; 5# National Laboratory of Virology, Szentágotthai Research Centre, University of Pécs, Ifjúság útja 20, H-7624 Pécs, Hungary

16:10 - 16:25

PHYLOGENETIC ANALYSIS OF SEQUENCE VARIANTS OF HUMAN PAPILLOMAVIRUS 52

Eszter Gyöngyösi¹, Edina Balázs¹, Brigitta László¹, Anita Szalmás¹, József Kónya¹, György Veress¹

1# Department of Medical Microbiology, Faculty of Medicine, University of Debrecen

16:25 - 16:40

HANTAVIRUS INFECTIONS IN HUNGARY BETWEEN 2018 AND 2025

Anita Koroknai¹, Anna Nagy¹, Orsolya Nagy^{1,2}, Nikolett Csonka¹, Katalin Szomor¹, Mária Takács^{1,2}

1# Department of Virology, Division of Microbiological Reference Laboratories, National Center for Public Health and Pharmacy, Budapest, Hungary; 2# Institute of Medical Microbiology, Semmelweis University, Budapest, Hungary

Agricultural and Food Microbiology– Session II.

Chairpersons: Martina Šeruga Musić and László Kredics

16:00 - 16:25

DECIPHERING A VERSATILE PATHOGEN: QUEST FOR EFFECTORS AND POTENTIAL MOBILE UNITES IN '*CANDIDATUS PHYTOPLASMA SOLANI*' GENOMES

Martina Šeruga Musić¹, Marina Drčelić¹, Bruno Polak¹, Nataša Bauer¹, Andreja Skiljaica¹, Shen-Chian Pei², Chih-Horng Kuo²

1# Department of Biology, Faculty of Science, University of Zagreb, Zagreb, Croatia; 2# Institute of Plant and Microbial Biology, Academia Sinica, Taipei, Taiwan

16:25 - 16:40

DEVELOPMENT OF YIELD-ENHANCING BACTERIAL SOIL AND FOLIAR FERTILIZER FOR CROPS THAT INHIBITS THE SPREAD OF *SCLEROTINIA SCLEROTIORUM*

Rózsa Máté¹, Mariann Auth², István Bakondi¹, Katalin Posta³, Gellért Farkas¹ and Zsolt Bereczky^{2†}

1BioFil Microbiological, Biotechnological and Biochemical Ltd.; Váci út 87., H-1139 Budapest, Hungary
2Saniplant Ltd.; Raktár utca 19., H-1035 Budapest, Hungary

3Hungarian University of Agriculture and Life Sciences, Department of Plant Physiology and Plant Ecology; Villányi út 29-43., H-1118 Budapest, Hungary

16:40 - 16:55

EVALUATING THE POTENTIAL OF PGPR STRAINS TO ENHANCE GROWTH AND DROUGHT TOLERANCE IN TOMATO AND MAIZE UNDER CONTROLLED AND FIELD CONDITIONS

Ines Amara¹, Milán Farkas¹, Neveen Majdi Almalkawi¹, Márton Pápai¹, Dalma Márton¹, Gergely Maróti^{2,3}, Katalin Tajti², Roland Wirth^{2,4}, Sándor Takács⁵, Hussein Daood⁵, Mátyás Cserhádi¹, András Tancsics¹, Balázs Kriszt⁶

1# Department of Molecular Ecology, Institute of Aquaculture and Environmental Safety, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary; 2# Institute of Plant Biology, HUN-REN Biological Research Center, Szeged, Hungary; 3# Seqomics Biotechnology Ltd., Mórahalom, Hungary; 4# Department of Biotechnology and Microbiology, University of Szeged, Szeged, Hungary; 5# Food Analysis Laboratories-Institute of Horticultural Sciences, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary; 6# Department of Environmental Safety, Institute of Aquaculture and Environmental Safety, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary

16:55 - 17:10

CONSORTIUM-BASED MICROBIAL INOCULANTS FOR CLIMATE-RESILIENT AGRICULTURE IN TEMPERATE CROPPING SYSTEMS

Orsolya Kedves¹, Katalin Perei¹, Nóra Tünde Lange-Enyedi², Simang Champramary², Boris Indic², Árpád Brányi³, Younes Rezaee Danesh⁴, Solmaz Najafi⁵, Csaba Vágvölgyi¹, György Sipos², László Kredics¹

1# Department of Biotechnology and Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary; 2# Functional Genomics and Bioinformatics Group, Faculty of Forestry, University of Sopron, Hungary; 3# Pannon-Trade Ltd., Győr, Hungary; 4# Department of Plant Protection, Faculty of Agriculture, Van Yuzuncu Yil University, 65080, Van, Turkey; 5# Department of Field Crops, Faculty of Agriculture, Van Yuzuncu Yil University, 65080, Van, Turkey

17:10 - 17:25

SUSTAINABLE YIELD IMPROVEMENT IN LEGUMES USING BENEFICIAL MICROORGANISMS

Szilárd Kovács¹, Ágota Domonkos², Sándor Jenei¹, Beatrix Horváth², Bilgun Tsenddorj¹, Gergely Maróti¹, László Szilák³, Bettina Ughy¹, Rózsa Máté⁴, Zsolt Bereczky⁴, Ákos Juhász², Zoltan Mayer², Viktor Szentpéteri², Gabriella Endre¹, Katalin Posta², **Péter Kaló**^{1,2}

1 Plant Biology Institute, HUN-REN Biological Research Center, Szeged, Hungary 2 Institute of Genetics and Biotechnology, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary 3 Szilak Laboratories Bioinformatics and Molecule-Design Ltd., H-6724 Szeged, Hungary 4 BioFil Microbiological, Gene-technological and Biochemical Ltd, Budapest, Hungary

17:25 - 17:40

EXTRACELLULAR PROLINE PRODUCTION OF PLANT GROWTH PROMOTING RHIZOBACTERIA IN HIGH SALT CONTAINING MEDIA

Dávid Kiss-Leizer^{1,2}, Zsolt Bereczky³, István Papp²

1BioFil Microbiological, Biotechnological and Biochemical Ltd.; Váci út 87., H-1139 Budapest, Hungary; 2Hungarian University of Agriculture and Life Sciences, Department of Plant Physiology and Plant Ecology; Villányi út 29-43., H-1118 Budapest, Hungary; 3Saniplant Ltd.; Raktár utca 19., H-1035 Budapest, Hungary

Tuesday, October 7th, Lecture Hall I.

Mycology & Industrial Microbiology– Session II.

Chairpersons: Levente Karaffa and László Galgóczi

17:00 - 17:15

ALTERNATIVE RESPIRATORY PATHWAYS IN *ASPERGILLUS NIGER*: THEIR IMPACT ON CITRIC ACID FERMENTATION

Alexandra Márton¹, Vivien Bíró¹, Erzsébet Fekete¹, Máté Tóth¹, Adrain Tsang², Levente Karaffa¹

1# University of Debrecen; 2# Concordia University

17:15 - 17:30

ELIMINATING MANGANESE SENSITIVITY AND BOOSTING CITRIC ACID PRODUCTION IN *ASPERGILLUS NIGER* THROUGH TRANSPORTERS MANIPULATION

Erzsébet Fekete¹, Alexandra Márton¹, Vivien Bíró¹, Adrian Tsang², Levente Karaffa¹

1# University of Debrecen; 2# Concordia University

17:30 - 17:45

INVESTIGATION OF A RECOMBINANT B-GALACTOSIDASE FROM *RHIZOMUCOR PUSILLUS*

Dániel Kovács¹, Csaba Vágvölgyi¹, Tamás Papp^{1,2}, Miklós Takó¹, Gábor Nagy³, Tamás Kovács¹

1# Department of Biotechnology and Microbiology, Faculty of Science and Informatics, University of Szeged, Szeged, HUNGARY; 2# HUN-REN-SZTE Pathomechanisms of Fungal Infections Research Group, University of Szeged, Szeged, HUNGARY; 3# HUN-REN Szeged Biological Research Centre, Institute of Genetics, Szeged, Hungary

17:45 - 18:00

CLINICAL AND BANANA-ASSOCIATED *FUSARIUM MUSAE* UNDER ANTIFUNGAL PRESSURE

Marta Kozarić¹, Ida Čurtović¹, Daniela Jakšić¹, Sanja Pleško², Marko Siroglavić², Zrinka Bošnjak², Maja Šegvić Klarić¹

1# University of Zagreb Faculty of Pharmacy and Biochemistry, Zagreb, Croatia; 2# University Hospital Zagreb, Zagreb, Croatia

18:00 - 18:15

IN VIVO THERAPEUTIC EFFICACY OF SYNERGISTIC ANTIFUNGAL PEPTIDE—DRUG COMBINATIONS

John K Karemera^{1,2}, Györgyi Váradi³, Gábor Bende^{1,2,4}, Richárd Merber^{1,2}, Gábor K. Tóth³, László Galgóczy¹

1# Department of Biotechnology and Microbiology, Faculty of Science and Informatics, University of Szeged; 2# Doctoral School of Biology, Faculty of Science and Informatics, University of Szeged, Szeged, Hungary; 3# Department of Medical Chemistry, Albert Szent-Györgyi Medical School, University of Szeged, Szeged, Hungary; 4# Department of Theoretical Health Sciences and Health Management, Faculty of Health Sciences and Social Studies, University of Szeged, Szeged, Hungary

18:15 - 18:30

UTILIZATION OF BETULINIC ACID IN A SYNERGISTIC COMBINATION WITH AMPHOTERICIN B AGAINST CLINICALLY IMPORTANT FUNGI

Bence Rafael^{1,2}, Mónika Homa^{1,2}, Csilla Szebenyi^{1,2}, Anna Molnár^{1,2}, Csaba Vágvölgyi^{1,2}, Chetna Tyagi¹, Tamás Papp^{1,2}

1# University of Szeged, Faculty of Science and Informatics, Department of Biotechnology and Microbiology, Szeged, Hungary; 2# HUN-REN-SZTE Fungal Pathomechanisms Research Group, University of Szeged, Szeged, Hungary

18:30 - 18:45

NOVEL VIABILITY ASSAY REVEALS DIFFERENCES IN FUNGICIDE SENSITIVITY OF ROOT ENDOPHYTIC FUNGI ORIGINATING FROM FUNGICIDE-EXPOSED AND NON-EXPOSED HABITATS

Fruzsina Matolcsi^{1,2}, Petra Lengyel², Herczeg Gábor^{3,4}, Péter Sasvári⁵, Szilvia Bősze^{6,7}, Kiss Roland², Árendás Tamás⁸, Imrefi Ildikó², Márk Z. Németh^{1,2}, Alexandra Pintye^{1,2}, Gábor M. Kovács^{1,2,3}

1 Department of Plant Pathology, Plant Protection Institute, Centre for Agricultural Research, HUN-REN, Budapest, Hungary 2 Department of Plant Anatomy, Institute of Biology, Eötvös Loránd University, Budapest, Hungary 3 HUN-REN-ELTE-MTM Integrative Ecology Research Group, Budapest, Hungary 4 Department of Systematic Zoology and Ecology, Institute of Biology, Eötvös Loránd University, Budapest, Hungary 5 Department of Forest Mycology and Plant Pathology, Swedish University of Agricultural Sciences, Uppsala, Sweden 6 HUN-REN-ELTE Research Group of Peptide Chemistry, Budapest, Hungary 7 Department of Genetics, Cell- and Immunobiology, Semmelweis University, Budapest, Hungary 8 Department of Crop Production, Agricultural Institute, Centre for Agricultural Research, HUN-REN, Budapest, Hungary

Wednesday, October 8th, Lecture Hall I.

Virology– Session III.

Chairpersons: Ljubo Barbić and Károly Nagy

9:30 - 9:55

CLIMATIC PREDICTORS AS EARLY WARNING SIGNALS FOR WEST NILE VIRUS OUTBREAKS

Ljubo Barbić¹, Maja Maurić Maljković¹, Ivan Levar¹, Ivona Ćorić¹, Gorana Miletić¹, Tatjana Vilibić-Čavlek^{2,3}, Maja Bogdanić^{2,3}, Vladimir Savić⁴, Vladimir Stevanović¹

1 Faculty of Veterinary Medicine, University of Zagreb 2 Croatian Institute of Public Health, Department of Virology 3 School of Medicine, University of Zagreb 4 Poultry Center, Croatian Veterinary Institute

9:55 - 10:10

CURRENT TRENDS IN HUMAN WEST NILE AND USUTU VIRUS INFECTIONS IN HUNGARY

Anna Nagy¹, Orsolya Nagy^{1,2}, Anita Koroknai¹, Nikolett Csonka¹, Zsuzsanna Molnár¹, Renáta Lőrincz¹, Katalin Szomor¹, Eszébet Barcsay¹, Mária Takács^{1,2}

1# National Center for Public Health and Pharmacy; 2# Institute of Medical Microbiology, Semmelweis University

10:10 - 10:25

WEST NILE VIRUS IN HUNGARY: A PHYLOGENETIC STUDY BASED ON INTEGRATED MOSQUITO AND HUMAN SURVEILLANCE

Kata Kerényi¹, János Sztikler¹, Zoltán Bódi¹, Orsolya Nagy^{1,2}, Anita Koroknai¹, Nikolett Csonka¹, Gábor Endre Tóth³, Daniel Cadar³, Károly Erdélyi^{4,5,6}, Anna Nagy¹

1# National Center for Public Health and Pharmacy, Budapest; 2# Institute of Medical Microbiology, Semmelweis University; 3# Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany; 4# HUN-REN Veterinary Medical Research Institute, Budapest; 5# Department of Microbiology and Infectious Diseases, University of Veterinary Medicine Budapest; 6# Health Safety National Laboratory, Veterinary Medical Research Institute, Budapest

10:25 - 10:40

GENETIC AND SEROLOGICAL DIVERSITY OF RECENT FOWL ADENOVIRUS ISOLATES

Zalán G. Homonnay¹, Szilvia Jakab², Krisztina Bali^{2,3}, Eszter Kaszab^{2,3}, Erika Tóth⁴, Krisztián Bányai^{2,5,6}, István Kiss¹, Tímea Tatár-Kis¹

1# Scientific Support and Investigation Unit, Ceva-Phylaxia Ltd., Budapest, Hungary; 2# HUN-REN Veterinary Medical Research Institute, Budapest, Hungary; 3# Department of Microbiology and Infectious Diseases, University of Veterinary Medicine Budapest, Budapest, Hungary; 4# Department of Microbiology, Eötvös Loránd University, Budapest, Hungary; 5# Department of Pharmacology and Toxicology, University of Veterinary Medicine Budapest, Budapest, Hungary; 6# Molecular Medicine Research Group, Szentágotthai Research Centre, University of Pécs, Hungary

10:40 - 11:05

MOLECULAR EPIDEMIOLOGY OF THE HIV-1 EPIDEMIC IN HUNGARY UNTIL 2024

Levente Zsichla^{1,2}, Lilla Adravec^{2,3}, Dalma Müller^{1,2,4}, Botond Lakatos⁵, János Szlávik⁵,
Eva Ay^{2,3}, Viktor Müller^{1,2}

1# Institute of Biology, ELTE Eötvös Loránd University, Budapest, Hungary; 2# National Laboratory for Health Security, ELTE Eötvös Loránd University, Budapest, Hungary; 3# National Reference Laboratory for Retroviruses, Department of Virology, National Center for Public Health and Pharmacy, Budapest, Hungary; 4# Department of Bioinformatics, Semmelweis University, Budapest, Hungary; 5# Department of Infectology, Central Hospital of Southern Pest - Institute of Haematology and Infectious Diseases, Budapest, Hungary

11:05 - 11:20

SIGNIFICANCE OF HIV-1 CAPSID IN INITIATION OF INFECTION

Károly Nagy¹

1# Semmelweis University, Budapest, Hungary

Wednesday, October 8th, Lecture Hall II.

Agricultural and Food Microbiology – Session III.

Chairpersons: Balázs Vajna-Ferenczy and József Geml

9:30 - 9:45

MICROBIAL COMMUNITY COMPOSITION OF OYSTER MUSHROOM SUBSTRATE: IMPACTS OF NUCLEIC ACID ISOLATION AND SEQUENCING PLATFORMS

Balázs Vajna¹, Ármin Horváth², Ferenc Bánáti², Ágnes Nagy³, Csaba László Maller¹

1# Department of Microbiology, Eötvös Loránd University, Pázmány Péter sétány 1/C, H-1117 Budapest, Hungary; 2# CHH Technology Ltd., Körtefa u.4., H-9027 Győr, Hungary; 3# Hungarian Defence Forces, Medical Centre, Róbert Károly 44., H-1134 Budapest, Hungary

9:45 - 10:00

COMPOSITIONAL DYNAMICS OF FOREST PLANT PATHOGENIC FUNGI IN MOSSES, SEDGES, AND OAK TREES ALONG A DISTURBANCE GRADIENT

József Geml¹, Gabriella Fintha^{2,1}, Adrienn Geiger¹, Bence Kovács³, Réka Aszalós³, Flóra Tinya³, Péter Ódor³

1# Environmental Microbiome Research Group, Eszterházy Károly Catholic University, Eger, Hungary; 2# Doctoral School of Biological Sciences, Hungarian University of Agricultural and Life Sciences, Gödöllő, Hungary; 3# Institute of Ecology and Botany, Centre for Ecological Research, Vácrátót, Hungary

10:00 - 10:15

INVESTIGATION OF THE MICROBIOLOGICAL EFFICIENCY OF POULTRY MANURE-BASED COMPOST TEA; METAGENOME ANALYSIS, AND IDENTIFICATION OF MICROORGANISMS THAT CAN BE CULTIVATED

László Attila Papp¹, Imre Boczonádi², Ida Miklós¹, Hajnalka Csoma¹

1# University of Debrecen, Faculty of Science and Technology, Institute of Biotechnology, Department of Genetics and Applied Microbiology, Debrecen, Hungary; 2# University of Debrecen, Faculty of Agricultural and Food Sciences and Environmental Management, Institute of Water and Environmental Management, Department of Circular Economy and Environmental Technology, Debrecen, Hungary

10:15 - 10:30

RESPONSES OF ENDOPHYTIC COMMUNITIES IN PLANTS TO NUTRIENT CHANGES

Rong Sheng¹, Risheng Xua¹, Rujia Liao¹, Xiaohua Yang¹

1# Institute of Subtropical Agriculture, Chinese Academy of Sciences, Changsha, China

10:30 - 10:45

SCREENING AND CHARACTERIZATION OF PROBIOTIC MICROORGANISMS IN THE NEMATODE CAENORHABDITIS ELEGANS

János **Barna**^{1,2}, Zalán Árpási³, Viktor Vázsony Vincze³, Helga Szalontai², Ildikó Bata-Vidács², Tibor Vellai^{1,3}, István Nagy², József Kukolya²

1# HUN-REN-ELTE Genetics Research Group, Department of Genetics, Eötvös Loránd University, Budapest, Hungary; 2# Food and Wine Research Institute, Eszterházy Károly Catholic University, Eger, Hungary; 3# Department of Genetics, Institute of Biology, Eötvös Loránd University, Budapest, Hungary

10:45 - 11:00

THE ANALYSIS AND IDENTIFICATION OF POTENTIAL PROBIOTIC CANDIDATES FROM COMMON CARP (CYPRINUS CARPIO) GUT AND GAMETES

Edit **KASZAB**¹, Milán FARKAS¹, Dávid VÁRKONYI¹, Balázs CSORBAI¹, Borbála NAGY¹, Péter HARKAI¹, Ifj. János RADÓCZI², Aygül EKİCİ³, Menekşe Didem DEMİRCAN AKYASAN³, Özgür ÇANAK³, Julianna KOBOLÁK¹, Gergely BERNÁTH¹

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