



10th Balkan Congress of Microbiology

Microbiologia Balkanica '2017

Sofia

Park Hotel Moskva

November 16th – 18th, 2017

Program

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Thursday, November 16th, 2017

Registration

Onset: 8:30

Opening Ceremony (Hall *Europe*)

9:30

Meeting of the Board of Balkan Society for Microbiology

18:30-19:30

Welcome Reception

19:30 at *Restaurant Moskva*, Park Hotel Moskva

Friday, November 17th, 2017

Congress Gala Dinner

20:00 at *Restaurant Moskva*, Park Hotel Moskva

Sunday, November 19, 2017

Trip to City of Plovdiv, Sightseeing of the Old Town (9:00 – 18:00)

Departure from Park Hotel Moskva: 9:00

November 16th 2017

9:30 Opening ceremony

Bauke Oudega (FEMS President, The Netherlands)
FEMS, development, strategy and future

Session One (Hall Europe)

Chair(s): Angel S. Galabov, Bauke Oudega

Human Microbiome

Plenary lectures

- 10:00-10:20 HM-1 **On the microbe synergisms in the reproductive tract**
Rayna Fichorova
Harvard Medical School, Boston, MA
- 10:20-10:40 HM-2 **Bacterial biofilms – formation, modulation and problems for eradication**
Stoyanka Stoitsova
The Stephan Angeloff Institute of Microbiology, Bulgarian Academy of Sciences, Sofia
- 10:40-11:00 HM-3 **Biofilm formation and virulence of group A streptococci**
Lazar Ranin
Institute of Microbiology and Immunology, Medical Faculty, University of Belgrade, Belgrade

Coffee break 11:00 – 11:30

- 11:30-11:50 HM-4 **Developing drugs that overcome antibacterial resistance: where do we stand and what should we do?**
Robert Penchovski
Faculty of Biology, Sofia University “St. Kliment Ohridski”, Sofia
- 11:50-12:10 HM-5 **Actin-activated nucleotidyl cyclase (aa-nc) toxins from *Pseudomonas aeruginosa* and *Vibrio nigripulchritudo***
A. Belyy¹, D. Raoux-Barbot¹, D. Ladant¹, L. Renault², Undine Mechold¹
¹Institut Pasteur, CNRS URA3528, Unité de Biochimie des Interactions macromoléculaires, Paris; ²Laboratoire d'Enzymologie et Biochimie Structurales, CNRS, Centre de Recherche de Gif, Gif-sur-Yvette, France

Oral reports

- 12:10-12:20 HM-6 Detection of biofilm formation and virulence related extracellular proteins in rhamnolipid deficient mutant $\Delta rhIA$ of *Pseudomonas aeruginosa* by proteomics**
S. Bukavaz
Department of Medical Microbiology, Trakya University Medical Faculty, Edirne
- 12:20-12:30 HM-7 The possible effects of different hormones on growth rate and ability of biofilm formation in different types of microorganisms**
D. Gümüř¹, F. Kalaycı-Yüksek¹, G. Uz², M. Bilgin³, M. Anđ-Küçüker¹
¹Department of Medical Microbiology, Faculty of Medicine; ²Department of Molecular Biology and Genetics, Faculty of Arts & Sciences; ³Department of Pharmaceutical Microbiology, Faculty of Pharmacy, Istanbul Yeni Yuzyil University, Istanbul
- 12:30-12:40 HM-8 Metabolite profiles of *Candida albicans* sessile cells in mono and multispecies biofilm models**
D. Kart¹, E. Nemutlu²
¹Hacettepe University, Faculty of Pharmacy, Department of Pharmaceutical Microbiology, Ankara; ²Hacettepe University, Faculty of Pharmacy, Department of Analytical Chemistry, Ankara
- 12:40-12:50 HM-9 RNA-SEQ analysis of FUR-like *SCLAV_01120* mutant of *Streptomyces clavuligerus***
A. Kurt-Kızıldođan¹, B. Abanoz¹, Ç. Otur¹, S. Okay², E. Ture¹, H. Şafak¹, Ç. Akcan¹
¹Ondokuz Mayıs University, Department of Agricultural Biotechnology, Samsun; ²Çankırı Karatekin University, Faculty of Science, Department of Biology, Çankırı, Turkey
- 12:50-13:00 HM-10 The antimicrobial and quorum quenching effects of natural compounds on biofilm forming bacteria**
D. İpek¹, N. N. Demirel Zorba², J. H. Kweon³, H. Lade³
¹Food Process Department, Ezine Vocational School, Çanakkale Onsekiz Mart University, Ezine, Çanakkale; ²Food Engineering Department, Çanakkale Onsekiz Mart University, Çanakkale, Turkey; ³ Environmental Engineering Department, Konkuk University, Seoul

Lunch break (13:00 -14:00)

Session Two (Hall Europe)

Chair(s): Zeynep Cigdem Kayacan, Milton Da Costa, Margarita Kambourova

New Antimicrobial Agents (Part 1)

Plenary lectures

- 14:00-14:20 AntM-1** **Opposition to vaccination: a cost benefit analysis!**
Zeynep Cigdem Kayacan
Istanbul University Istanbul Faculty of Medicine, Department of Medical Microbiology, Istanbul
- 14:20-14:40 AntM-2** **Major impact of massive migration on spread of epidemic *Mycobacterium tuberculosis* strains**
Igor Mokrousov
St. Petersburg Pasteur Institute, St. Petersburg
- 14:40-15:00 AntM-3** **Phage therapy: today and tomorrow**
Andrzej Górski
Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, Wrocław

Extremophilic Microorganisms

Plenary lectures

- 15:00-15:20 ExM-1** **What, if anything is an Extremophile?**
Milton Da Costa
Department of Life Sciences, University of Coimbra, Portugal; Microbiology Lab, Biocant, Biotechnology Innovation Center, Cantanhede, Portugal
- 15:20-15:40 ExM-2** **Exopolysaccharides from extremophilic microorganisms**
Margarita Kambourova¹, N. Radchenkova¹, I. Bojadjieva¹, N. Atanasova¹, B. Nicolaus², G. Tommonaro², A. Poli², E. Toksoy Oner³, S. Yasar Yildiz³, K. Yalcin Arga³
¹Laboratory of Extremophilic Bacteria, The Stephan Angeloff Institute of Microbiology, Bulgarian Academy of Sciences, Sofia; ²Institute of Biomolecular Chemistry (ICB), National Research Council (CNR), Pozzuoli, Italy; ³Department of Bioengineering, Marmara University, Istanbul

Oral report

- 15:40-15:50 ExM-3** **Isolation, characterization and identification of bacteria living in extreme conditions**
R. Aydın, Y. Atakav
Department of Bioengineering, Faculty of Engineering and Natural Sciences, Adana Science and Technology University, Seyhan, Adana

Coffee break 16:00 – 16:30

Microbial Biotechnologies

Chair(s): Maria Angelova, Alexander Netrusov

Plenary lecture

16:30-16:50 MB-1 **Jet fuels from lignocellulose with membrane concentration and catalysis**

Alexander Netrusov¹, V. Teplyakov², M. Tsodikov²

¹Microbiology Department, Moscow State University, Moscow; ²Topchiev Institute of Petrochemical Synthesis, Russian Academy of Sciences, Moscow

Oral reports

16:50-17:00 MB-2 **Bioremediation of polluted waters generated from mining wastes in a uranium deposit**

M. Iliev¹, R. Ilieva¹, V. Groudeva¹, S. Groudev²

¹University of Sofia "Saint Kliment Ohridski", Sofia; ²University of Mining and Geology, Sofia

17:00-17:10 MB-3 **Sheaths and biogenic iron oxides produced by *Leptothrix* sp. and application in the nanotechnology**

R. Angelova^{1,2}, L. Slavov², M. Iliev¹, I. Nedkov², B. Blagoev², R. Ilieva¹, V. Groudeva¹

¹Faculty of Biology, Sofia University "St. Kliment Ohridski", Sofia; ²Institute of Electronics, Bulgarian Academy of Sciences, Sofia

17:10-17:20 MB-4 **A comparative study on β -carotene production of some *Rhodotorula* strains**

F. Midik¹, M. T. Bozdemir², Z. Y. Ozbas³

^{1,3}Hacettepe University, Department of Food Engineering, Beytepe, Ankara

²Hacettepe University, Department of Chemical Engineering, Beytepe, Ankara

17:20-17:30 MB-5 **Computing fluid dynamics simulations for development of novel generation photobioreactors for high density microalgae cultures: experimental verification**

C. Hinterholz¹, A. Schuelter¹, D. Trigueros¹, A. Módenes¹, C. Borba¹, F. Espinoza-Quiñones¹, A. Kroumov²

¹Department of Chemical Engineering, West Paraná State University, Jardim Santa Maria, Toledo, Brasil; ²The Stephan Angeloff Institute of Microbiology, Bulgarian Academy of Sciences, Sofia

17:30-17:40 MB-6 **Investigation of lipolytic activities of *Aeromonas hydrophila* KSED1G and *Bacillus atrophaeus* sed5a isolated from Burdur lake**

B. Tocan, N. Sarigul,

Mehmet Akif Ersoy University, Burdur, Turkey

17:40-17:50 MB-7 **Impact of organic load and temperature regime on the anaerobic digestion of wheat straw and corn stalks for biomethane production**

V. Hubenov, L. Kabaivanova, D. Denchev, E. Chorukova, S. Mihaylova, V. Lakov, I. Simeonov

The Stephan Angeloff Institute of Microbiology, Bulgarian Academy of Sciences, Sofia

Poster Session One

18:00 – 19:00

HM, AntiM, ExM, MB, II, MM

Human Microbiome

HM-11 **Application of hybrid polymer systems for detachment of bacterial biofilms**

D. Borisova¹, E. Haladjova², M. Kyulavska², S. Stoitsova¹, Ts. Paunova-Krasteva¹

¹The Stephan Angeloff Institute of Microbiology, Bulgarian Academy of Sciences, Sofia; ²Institute of Polymers, Bulgarian Academy of Sciences, Sofia

New antimicrobial agents

AntM-20 **Antimicrobial activity of *Peucedanum graminifolium* and *Peucedanum ozhatayiorum***

S. Arabaci¹, M. Eryilmaz², S. Gurpinar², M. Coskun³

¹The Ministry of Health of Turkey, Medicines and Medical Devices Agency, Ankara; ²Ankara University, Faculty of Pharmacy, Department of Pharmaceutical Microbiology, Ankara; ³Ankara University, Faculty of Pharmacy, Department of Pharmaceutical Botany, Ankara

AntM-21 **Antimicrobial effects of actinomycetes isolated from caves in the eastern black sea region of Turkey**

U. Uzun¹, E. Tufekci², N. Ertunga¹, A. Biber^{3,4}, B. Altay⁴, İ. Tekkilic^{4,5}, K. Tan⁴, A. Kilic²

¹Department of Chemistry, Faculty of Sciences, Karadeniz Technical University, Trabzon; ²Department of Medical Microbiology, Faculty of Medicine, Karadeniz Technical University, Trabzon; ³Department of Biotechnology, Graduate School of Natural and Applied Sciences, Middle East Technical University, Ankara; ⁴Cave Research Association, Ankara; ⁵Department of Art History, Faculty of Letter, Hacettepe University, Ankara

AntM-22 **Investigation of susceptibilities to various antimicrobials and changing in penicillin susceptibility of group B *Streptococci* between years**

E. Özçelik¹, D. Er¹, G. Tamer², S. Genç², D. Dündar²

¹Department of Medical Microbiology, Institute of Health Sciences, Kocaeli University, Kocaeli; ²Department of Medical Microbiology, Kocaeli University, Kocaeli, Turkey

AntM-23 **Antimicrobial activities and chemical composition of the essential oils *Salvia officinalis* from Montenegro**

S. Perović¹, S. Krivokapic¹, B. Damjanović-Vratnica², A. Perović¹, G. Veinovic³, J. Stankovic³

¹Department of Biology, Faculty of Natural Science and Mathematics, Podgorica; ²Faculty of Metallurgy and Technology, University of Montenegro, Podgorica; ³Faculty of Pharmacy, University of Belgrade, Belgrade

AntM-24 **Epidemiology and antimicrobial activity of *Staphylococcus lugdunensis***

I. Sgouropoulos¹, I. Mavrovouniotis¹, M. Chatzi¹, M. Velenis¹, G. Kagkalou¹, O. Vasilaki¹, M. Kachrimanidou², L. Skoura¹, E. Protonotariou¹

¹Dept of Microbiology, AHEPA University Hospital-Aristotle University of Thessaloniki, Thessaloniki; ²Dept of Microbiology, Medical School, Aristotle University of Thessaloniki, Thessaloniki

- AntM-25 Isolation of anaerobic bacteria and susceptibility to antimicrobial agents from blood cultures in a tertiary Greek hospital during a four-year period (2012-2015)**
M. Orfanidou, G. Ganteris, M. Kamperogianni, L. Drosopoulos, A. Tsakalos, D. Tritzali, E. Vagiakou
 Microbiology Department of General Hospital of Athens "G. Gennimatas", Athens
- AntM-26 Evaluation of antibacterial properties of chitosan-citrate solution-an in vitro study**
E. Gyulbenkiyan¹, A. Gusiyska¹, R. Vassileva¹, R. Gergova²
¹Department of Conservative Dentistry, Faculty of Dental Medicine, Medical University, Sofia;
²Department of Medical Microbiology, Medical Faculty, Medical University, Sofia
- AntM-27 Investigation fim genes and antimicrobial sensitivity patterns in Uropathogenic *Escherichia coli***
D. Öcal¹, Ö. Coşar², E. Kaplan², A. Kalkan², O. Güney², M. Kale², S. Köse³, I. Dolapçı⁴
¹University of Health Sciences, Dışkapı Yıldırım Beyazıt Training and Research Hospital, Department of Medical Microbiology, Ankara; ²Ankara University School of Medicine, Ankara; ³Ankara University School of Medicine, Department of Biostatistic Microbiology, Ankara; ⁴Ankara University School of Medicine, Department of Medical Microbiology, Ankara
- AntM-28 Antifungal effect of *Juniperus communis* essential oil and postdistillation waste against opportunistic pathogen *Candida albicans* and selected micromycetes**
B. Vasiljević¹, A. Paunkov¹, B. Nikolić¹, S. Cvetković¹, A. Džamić², D. Mitić-Ćulafić¹, J. Knežević-Vukčević¹, A. Ćirić³
¹ Chair of Microbiology, University of Belgrade Faculty of Biology, Belgrade; ²Institute of Botany and Botanical Garden "Jevremovac", University of Belgrade, Faculty of Biology, Belgrade; ³Department of Plant Physiology, University of Belgrade, Institute for Biological Research "Siniša Stanković", Belgrade
- AntM-29 Effectivity "in vitro" of dihydroanthracene disulfonic acid derivative**
D. Mnela¹, F. Rustemi²
¹ Department of Microbiology. University Hospital Center "Mother Teresa" Tirana; ²Department of Biomedical and Experimental Subjects, Department of Pharmacology, Faculty of Medicine, University of Medicine, Tirana
- AntM-30 Investigation of the antimicrobial effects of *Nigella sativa* L. seeds on the multiple resistant clinical isolates**
I. Durukan, G. Bayramoğlu, I. Tosun, N. Kaklikkaya, F. Aydın
 Department of Medical Microbiology, Faculty of Medicine, Karadeniz Technical University, Trabzon
- AntM-31 Antimicrobial resistance of *Streptococcus pneumoniae* species isolated from clinical samples**
Ş. Dinçer, Ü. Zeytinli, E. Özyurt, Ö. Yanılmaz, S. Aksaray
 Istanbul Northern Anatolian Association of Public Hospitals Central Laboratory, Istanbul
- AntM-32 Antimicrobial activities of novel oxazolidinones**
N. Altanlar¹, C. Kuş²
¹Ankara University Faculty of Pharmacy, Department of Pharmaceutical Microbiology, Ankara;
²Ankara University Faculty of Pharmacy Department of Pharmaceutical Chemistry Ankara
- AntM-33 Investigation of antifungal susceptibilities of *Candida* species isolated from blood cultures by microdilution method**
R. Karaaslan¹, A. Aktaş², F.Orhan³
¹Turkish Air Force Academy, Istanbul; ² Ankara Yıldırım Beyazıt University, Faculty of Medicine Ankara; ³Ataturk University, Health Services Vocational Training School, Erzurum

- AntM-34 Potential combinations between curcumin and alkylphosphocholines for the treatment of cutaneous T-cell lymphoma and associated bacterial infections**
M. Zaharieva¹, L. Dimitrova¹, A. Kroumov², A. Trochopoulos³, I. Tsvetkova¹, Y. Ilieva³, T. Atanassova³, V. Pencheva⁴, K. Yoncheva⁵, S. Philipov⁶, M. Berger⁷, S. Konstantinov³, H. Najdenski¹
¹Department of Infectious Microbiology; ²Department of Applied Microbiology, The Stephan Angeloff Institute of Microbiology, Bulgarian Academy of Sciences, Sofia; ³Department of Pharmacology, Pharmacotherapy and Toxicology; ⁴Department of Pharmaceutical Chemistry, Sofia; ⁵Department of Pharmaceutical Technology and Biopharmaceutics, Faculty of Pharmacy, Medical University of Sofia, Sofia; ⁶Department of Anatomy, Histology, General and Clinical Pathology, Forensic Medicine, Faculty of Medicine, Sofia University "St. Kliment Ohridski", Sofia; ⁷Toxicology and Chemotherapy Unit, German Cancer Research Centre, Heidelberg
- AntM-35 Evaluation of the antimicrobial, cytotoxic and radical scavenging potential of different solvent extracts of the medicinal plant *Geum urbanum* L.**
L. Dimitrova¹, M. Zaharieva¹, N. Kostadinova², M. Popova³, I. Tsvetkova¹, S. Konstantinov⁴, V. Bankova³, H. Najdenski¹
¹Department of Infectious Microbiology; ²Section of Mycology, The Stephan Angeloff Institute of Microbiology, Bulgarian Academy of Sciences, Sofia; ³Laboratory "Chemistry of Natural Products", Institute of Organic Chemistry with Centre of Phytochemistry, Bulgarian Academy of Sciences, Sofia, Bulgaria; ⁴Department of Pharmacology, Pharmacotherapy and Toxicology, Faculty of Pharmacy, Medical University Sofia
- AntM-36 Effect of neutral electrolyzed water on the viability of *Listeria monocytogenes***
G. Bayrakal¹, C. Sarimaden², A. Aydin¹, G. Ciftcioglu^{1,2}
¹Istanbul University, Faculty of Veterinary Medicine, Food Hygiene and Technology Department, Istanbul; ²Inovatif Biotechnology Chemistry and Health Ltd., Istanbul Technopark Building, Istanbul
- AntM-37 Synergistic effects of meropenem combinations for carbapenemase-producing Gram-negative bacteria**
A. Karakullukcu¹, M. Kuşucu², B. Borsa³, N. Imamova², E. Doğantürk², G. Aygün²
¹Gümüşhane University, Vocational School of Health Services, Gümüşhane; ²Cerrahpasa Medical Faculty of Istanbul University, Department of Medical Microbiology, Istanbul; ³Yeditepe University Medical Faculty, Department of Medical Microbiology, Istanbul
- AntM-38 Antistaphylococcal activity of chitosan based vancomycin containing hydrogel formulations**
K. Ozguler¹, M. Guncu¹, A. Aydin², B. Aksu¹, A. Sezer²
¹Marmara University, Medical School, Microbiology Dept. Maltepe, Istanbul; ²Marmara University, Faculty of Pharmacy, Pharmaceutical Biotechnology Dept. Uskudar, Istanbul
- AntM-39 Antimicrobial properties of molluscan hemocyanins**
R. Velikova, L. Velkova, A. Dolashki, P. Dolashka
 Institute for Organic Chemistry, Center for Phytochemistry, BAS, Sofia
- AntM-40 Photodynamic antimicrobial activity of new porphyrin derivatives against methicillin resistant *Staphylococcus aureus***
H. Taşlı¹, A. Akbiyik², N. Topaloğlu³, V. Alptüzün⁴, S. Parlar⁴
¹Ege University Faculty of Pharmacy, Department of Pharmaceutical Microbiology, Izmir; ²PhD student, Ege University Faculty of Pharmacy, Department of Pharmaceutical Microbiology, Izmir; ³Izmir Katip Celebi University Faculty of Engineering and Architecture, Department of Biomedical Engineering, Izmir ⁴Ege University Faculty of Pharmacy, Department of Pharmaceutical Chemistry, Izmir
- AntM-41 Antimicrobial activity of *Lactobacillus* sp. Isolated from vaginal cultures**
S. Gurbinar¹, M. Eryilmaz¹, H. Guriz², D. Gerceker²
¹Ankara University, Faculty of Pharmacy, Department of Pharmaceutical Microbiology, Ankara; ²Ankara University, Faculty of Medicine, Cebeci Hospital Central Laboratory, Ankara

AntM-42 Antioxidant activity of *Rapana thomasiana* hemocyanin
A. Marchev¹, Y. Raynova², K. Idakieva², L. Doumanova¹, A. Pavlov¹
¹The Stephan Angeloff Institute of Microbiology, BAS, Sofia; ²Institute of Organic Chemistry with Centre of Phytochemistry, Bulgarian Academy of Sciences, Sofia

AntM-43 The effects of disinfectants and ciprofloxacin on expression of quorum sensing genes in *Pseudomonas aeruginosa*
N. Uzunbayir-Akel¹, Y. Tekintas², F. Yilmaz³, I. Ozturk², M. Okeer³, S. Aydemir⁴, F. Cilli⁴, M. Hosgor-Limoncu³
¹Ege University, Faculty of Medicine, Department of General Surgery, Izmir; ²Izmir Katip Celebi University, Faculty of Pharmacy, Department of Pharmaceutical Microbiology, Izmir; ³Ege University, Faculty of Pharmacy, Department of Pharmaceutical Microbiology, Izmir; ⁴Ege University, Faculty of Medicine, Department of Medical Microbiology, Izmir

AntM-44 Investigation fim genes and antimicrobial sensitivity patterns in uropathogenic *Escherichia coli*
D. Öcal¹, Ö. Coşar², E. Kaplan², A. Kalkan², O. Güney², M. Kale², S. Köse³, I. Dolapçı⁴
¹University of Health Sciences, Dışkapi Yıldırım Beyazıt Training and Research Hospital, Department of Medical Microbiology, Ankara; ²Ankara University School of Medicine, Ankara; ³Ankara University School of Medicine, Department of Biostatistic Microbiology, Ankara; ⁴Ankara University School of Medicine, Department of Medical Microbiology, Ankara

AntM-45 Investigation of the effects of *Eucalyptus camadulensis* L. Dehnh`s essential oils on methicillin resistance and slime production in *Staphylococci*
N. Duran¹, S. Bayraktar¹, S. Çolak¹, F. Çimen¹, E. Ay¹, D. A. Kaya²
¹Microbiology & Clinical Microbiology Department, Medical Faculty, Mustafa Kemal University, Hatay; ²Department of Field Crops, Agriculture Faculty, Mustafa Kemal University, Hatay, Turkey

Extremophilic Microorganisms

ExM-4 Biodiversity of extreme and hyperthermophilic microorganisms from Bulgarian hot springs
M. Kambourova, N. Boteva
The Stephan Angeloff Institute of Microbiology, Bulgarian Academy of Sciences, Sofia

ExM-5 Presence of *enta* and *entb* genes among thermophilic bacteria isolated from hot springs in Turkey
G. Başbülbül¹, M. Ozteber², H. Biyik², E. Oryaşin¹, B. Bozdoğan¹
¹Adnan Menderes University, Recombinant DNA and Recombinant Protein Center, Aydın; ²Adnan Menderes University, Faculty of Arts and Science, Biology Department, Aydın, Turkey

ExM-6 Culture-independent identification of thermophilic bacteria from a hot spring in Turkey
M. Dabanca, Z. Aynur Erdem, G. Başbülbül
Adnan Menderes University, Recombinant DNA and Recombinant Protein Center, REDPROM, Aydın, Turkey

Microbial Biotechnologies

MB-20 Selection of electrochemically active microorganisms
V. Groudeva¹, M. Iliev¹, R. Ilieva¹, P. Grozdanov³, S. Groudev²
¹University of Sofia "Saint Kliment Ohridski", Sofia; ²University of Mining and Geology, Sofia; ³The Stephan Angeloff Institute of Microbiology, Bulgarian Academy of Sciences, Sofia

- MB-21** **Microbial processing of a gold-bearing sulphide concentrate**
S. Groudev¹, M. Nicolova¹, I. Spasova¹, P. Georgiev¹, V. Groudeva², M. Iliev², R. Ilieva¹
¹University of Mining and Geology, Sofia; ²University of Sofia "Saint Kliment Ohridski", Sofia
- MB-22** **Bioleaching of valuable metals from copper final slags**
P. Georgiev¹, I. Spasova¹, M. Nicolova¹, S. Groudev¹, V. Groudeva², M. Iliev², R. Ilieva²
¹University of Mining and Geology, Sofia; ²University of Sofia "Saint Kliment Ohridski", Sofia
- MB-23** **Utilization of celery by-products and carrot juice for citric acid production by *Yarrowia lipolytica***
S. Karasu-Yalcin
 Abant Izzet Baysal University, Faculty of Engineering and Architecture, Food Engineering Department, Bolu, Turkey
- MB-24** **Synthesis and characterization of bacterial surface protein imprinted nanoparticles**
Ö. Erdem¹, Y. Saylan², N. Cihangir¹, A. Denizli²
¹Hacettepe University, Department of Biology, Division of Biotechnology, Ankara; ²Hacettepe University, Department of Chemistry, Division of Biochemistry, Ankara
- MB-25** **Effects of various substrates on growth and pullulan production characteristics of *Aureobasidium pullulans* az-6**
G. N. Mujdeci¹, M. T. Bozdemir², Z. Y. Ozbas³
¹Hitit University, Faculty of Engineering, Food Engineering Department, Corum; ²Hacettepe University, Faculty of Engineering, Chemical Engineering Department, Beytepe, Ankara; ³Hacettepe University, Faculty of Engineering, Food Engineering Department, Beytepe, Ankara
- MB-26** **Bacterial surface protein imprinted nanoparticles for surface plasmon resonance sensor applications**
Ö. Erdem¹, Y. Saylan², N. Cihangir¹, A. Denizli²
¹Hacettepe University, Department of Biology, Division of Biotechnology, Ankara; ²Hacettepe University, Department of Chemistry, Division of Biochemistry, Ankara
- MB-27** ***In vivo* biological effect of phytohormones synthesised by *Trichoderma viride* SL-45**
M. Badalova, T. Licheva, Y. Evstatieva, V. Savov
 Sofia University "St. Kliment Ohridski", Sofia
- MB-28** **Isolation, purification and antibacterial properties of human recombinant lactoferrin from transgenic goats**
A. Kastsianevich¹, A. Budzevich²
¹Institute of Microbiology of National Academy of Sciences of Belarus, Minsk; ²Scientific and Practical Center of the National Academy of Sciences of Belarus on Animal husbandry, Zhodino, Belarus
- MB-29** **Optimization of catalase biosynthesis from antarctic strain *Penicillium chrysogenum* P29**
E. Krumova, R. Abrashev, N. Kostadinova, G. Stoyancheva, J. Miteva-Staleva, B. Spasova, M. Angelova
 The Stephan Angeloff Institute of Microbiology, Bulgarian Academy of Sciences, Sofia
- MB-30** **Purification and characterization of cold-active catalase from antarctic fungus *Penicillium chrysogenum***
R. Abrashev, E. Krumova, N. Kostadinova, J. Miteva-Staleva, B. Spasova, S. Vassilev, M. Angelova
 The Stephan Angeloff Institute of Microbiology, Bulgarian Academy of Sciences, Sofia

- MB-31 Siderophore production in fur-related sCLAv_01120 mutant of *Streptomyces clavuligerus***
A. Kurt-Kızıldoğan¹, E. Türe¹, B. Abanoz¹, S. Okay², Ç. Otur¹
¹Ondokuz Mayıs University, Department of Agricultural Biotechnology, Samsun; ²Çankırı Karatekin University, Faculty of Science, Department of Biology, Çankırı, Turkey

Infectious Immunology and Biological Response Modifiers

- II-7 Fungal infections in immunosuppressed patients**
E. Giannouli, I. Diamanti, I. Zampen, S. Koukoutianos, E. Ntousia, M. Papaioannou, D. Kotsinis, E. Martziou, P. Kazila
Biopathology Department, "Theageneio" Cancer Hospital of Thessaloniki
- II-8 Retrospective evaluation of anti-neutrophil cytoplasmic antibodies**
U. Arslan, N. Ciftci, F. Ates, M. Sezen, H. Turk Dagi
Department of Microbiology, Faculty of Medicine, Selcuk University, Konya
- II-9 The possible effects of IL-1 β , IL-6 and TNF- α on growth rate in two different UPEC strains**
F. Kalayci-Yukse¹, M. Bilgin², G. Uz³, D. Gumus¹, M. Ang-Kucuker¹
¹Department of Medical Microbiology, Faculty of Medicine; ²Department of Pharmaceutical Microbiology, Faculty of Pharmacy; ³Department of Molecular Biology and Genetics, Faculty of Arts & Sciences, Istanbul Yeni Yuzyil University, Istanbul
- II-10 The role of serum specific IgE in children with food allergies. Correlation with the disease severity**
Ch. Tsigalou¹, A. Pistola², Th. Konstantinidis¹, V. Aristotelidou², M. Elkady², A. Grapsa¹, M. Panopoulou¹, A. Zissimopoulos²
¹Laboratory of Microbiology, School of Medicine, Democritus University of Thrace, Alexandroupolis; ²Nuclear Medicine Dept., School of Medicine, Democritus University of Thrace, Alexandroupolis
- II-11 Evaluation of serum 25-OH vitamin D and allergy specific IgE levels in patients with allergic bronchial asthma. Correlation with the disease severity**
Ch. Tsigalou¹, Th Konstantinidis¹, A. Pistola², A. Adel², A. Tsartsarakis², K. Kantartzi¹, M. Lampropoulou³, S. Zissimopoulos²
¹Laboratory of Microbiology, School of Medicine, Democritus University of Thrace, Alexandroupolis; ² Nuclear Medicine Dept., School of Medicine, Democritus University of Thrace, Alexandroupolis; ³Laboratory of Histology-Empryology, School of Medicine, Democritus University of Thrace, Alexandroupolis

Medical Microbiology

- MM-15 *Skermanella aerolata* contamination of formalin fixed anatomy cadaver**
M. M. Guncu¹, B. Aksu¹, M. Ozkan², S. D. Yildiz², U. S. Sehirli²
¹Marmara University, Medical School, Department of Microbiology, Istanbul; ²Marmara University, Medical School, Department of Anatomy, Istanbul
- MM-16 Cell death mechanisms are regulated by c-terminal domain of tetanus toxin following spinal cord injury**
T. Dagci¹, M. Sözbilen², M. Öztürk², G. Kaftan³, H. Özyalçın², G. Armagan³
¹Department of Physiology, Faculty of Medicine, Ege University, Izmir; ²Department of Orthopedic Surgery, Faculty of Medicine, Ege University, Izmir; ³Department of Biochemistry, Faculty of Pharmacy, Ege University, Izmir

- MM-17** **A case with fungal keratitis caused by *Fusarium* sp.**
N. Gjylameti, A. Koraqi, B. Basholli, V. Duro, A. Xhaxha
 Microbiology Laboratory, University Hospital Center "Mother Teresa", Tirana
- MM-18** **Isolates of *Candida* spp. from oral cavity of patients with diabetes mellitus and their *in vitro* susceptibility to antifungal drugs**
D. Xhaxha¹, E. Xhaxha²
¹Department of Medical Sciences, Albanian University, Tirana, Private Medical Laboratory, Tirana;
²Regional Hospital of Berat, Albania
- MM-19** **Distribution of EMM genotypes in Bulgarian clinical significant isolates *Streptococcus pyogenes*. A pilot study**
R. Gergova¹, A. Muhtarova¹, R. Markovska¹, K. Mihova², R. Kaneva², L. Setchanova¹, I. Mitov¹
¹Department of Medical Microbiology, Medical University, Sofia; ²Department of Medical Chemistry and Biochemistry, Molecular Medicine Center, Medical University, Sofia
- MM-20** **Distribution of super-antigenes and toxins in Bulgarian invasive and non-invasive clinical isolates *Streptococcus pyogenes***
A. Muhtarova, R. Gergova, L. Setchanova, I. Mitov
 Department of Medical Microbiology, Medical University, Sofia
- MM-21** **Procalcitonin values on agent basis in patients who have blood culture positivity**
H. K. Özhan, G. Aydın, Ö. Doğan, G. Balköse, E. S. Boz, R. Adaleti, S. Aksaray
 Haydarpaşa Numune Research and Training Hospital, İstanbul
- MM-22** **A study over etiological aspect of infectious rachiditis**
N. Gjermeni¹, N. Como¹, A. Harxhi¹, P. Pipero¹, S. Bino¹, K. Shkurti¹, T. Kalo¹, A. Korraqi², V. Mano², E. Koci², D. Petani¹, Dh. Kraja¹
¹Service of Infectious Disease; ²Service of Microbiology, UHC Tirana
- MM-23** ***Staphylococcus aureus* bloodstream infections during a two year period**
E. Oikonomopoulou, C. Verra, A. Tsimpouxi, V. Diamanti, P. Manolopoulou
 General Hospital of Patras, Patras
- MM-24** **Fungal bloodstream infections during a two-year period**
E. Oikonomopoulou, C. Verra, A. Tsimpouxi, V. Diamanti, K. Manolopoulou
 General Hospital of Patras, Patras
- MM-25** **Urinary tract infection pathogens in inpatients versus outpatients in a tertiary care center laboratory, retrospective study**
A. Dokaj¹, E. Nebiu², A. Marku³
¹Microbiology Laboratory, Mother Theresa University Hospital, Tirana; ²Microbiology Laboratory, Mother Theresa University Hospital, Tirana; ³Microbiology Laboratory, Mother Theresa University Hospital, Tirana
- MM-26** **Inverse association between *Helicobacter pylori* infection and children's asthma in Greece. A case-control study**
C. Tsigalou¹, T. G. Konstantinidis¹, A. Karvelas^{1,2}, A. Grapsa², D. Casimos³, M. Panopoulou², A. Tsakris⁴
¹Biopathology Laboratory, University General Hospital of Alexandroupolis; ²Laboratory of Microbiology, School of Medicine, Democritus University of Thrace, Alexandroupolis; ³Department of Paediatrics, University General Hospital of Alexandroupolis, Democritus University of Thrace, Alexandroupolis; ⁴Laboratory of Microbiology, Medical School, National and Kapodistrian University of Athens, Athens

- MM-27** **Detection of biofilm formation and virulence related extracellular proteins in rhamnolipid deficient mutant $\Delta rhIA$ of *Pseudomonas aeruginosa* by proteomics**
S. Bukavaz
Department of Medical Microbiology, Trakya University Medical Faculty, Edirne
- MM-28** **Potential infectious diseases following natural disasters**
M. Mavrouli¹, S. Mavroulis², E. Lekkas², A. Tsakris¹
¹Department of Microbiology, Medical School, National and Kapodistrian University of Athens;
²Department of Dynamic Tectonic Applied Geology, Faculty of Geology and Geoenvironment, School of Sciences, National and Kapodistrian University of Athens, Athens
- MM-29** **Overview of the microbiology of tympanosclerotic plaque and cholesteatoma in the light of metagenomics research**
M.T. Kalcioğlu¹, D. Guldemir², O. Unaldi², O. K. Egilmez¹, B. Celebi², R. Durmaz^{2,3}
¹Istanbul Medeniyet University, Medical Faculty, Göztepe Research and Education Hospital, Otorhinolaryngology-Head and Neck Surgery Department, İstanbul; ²National Public Health Agency, Department of Microbiology, Ankara; ³Yıldırım Beyazıt University, Faculty of Medicine Department of Clinical Microbiology, Ankara
- MM-30** **Diversity on the prevalence of the spoligotypes of *Mycobacterium tuberculosis* isolates in Turkey**
R. Durmaz^{1,2}, A. Karagoz², H. Simsek³, N. Ucarman³, A. Arslan³
¹Yıldırım Beyazıt University, Faculty of Medicine, Department of Clinical Microbiology, Ankara; ²Public Health Agency of Turkey, National Molecular Microbiology Laboratory, Ankara; ³Public Health Agency of Turkey, National Tuberculosis Reference Laboratory, Ankara
- MM-31** **Estimation of *Clostridium difficile* Infection Incidence in a Tertiary-care hospital during a 2-year period**
C. Louka, N. Rekleiti, M. Katri, F. Mitropoulou, V. Mamali, O. Zarkotou, G. Vrioni, K. Themeli-Digalaki
Department of Microbiology, "Tzaneio" General Hospital of Piraeus, Piraeus
- MM-32** **Surveillance of colonization in patients of the intensive care unit**
I. Diamanti^{1,3}, E. Giannouli¹, S. Ploukou³, V. Konstantikaki³, M. Papaioannou¹, E. Papageorgiou², D. Kotsinis¹, E. Martziou¹, S. Anisoglou^{2,3}, P. Kazila^{1,3}
¹Biopathology Department; ²IntensiveCareUnit; ³Hospital Infection Committee "Theageneio" Cancer Hospital of Thessaloniki, Thessaloniki
- MM-33** **An unusual case of endocarditis due to *Corynebacterium jeikeium***
E. Kucukates¹, S. Deniz Ozsoy², I. Haberal², L. Oksuz³, A. M. Mert²
¹Laboratory of Clinical Microbiology; ²Department of Cardiovascular Surgery, Istanbul University Cardiology Institute; ³Department of Medical Microbiology, Istanbul Medical Faculty, Istanbul
- MM-34** **Comparison of microscopy, culture and molecular methods in the tuberculosis diagnosis**
R. Aslan¹, Z. Ascitoraman²
¹Elazığ Education and Research Hospital, Elazığ; ²Firat University, Medical Faculty, Medical Microbiology, Elazığ, Turkey
- MM-35** ***In vitro* activity of calseramics against *Staphylococci*, *Escherichia coli* and *Klebsiella pneumoniae* isolated from patients coronary and surgical intensive care units**
E. Kucukates¹, N. Gultekin², K. Gultekin¹
¹Laboratory of Clinical Microbiology; ²Department of Cardiology, Istanbul University Cardiology Institute, Istanbul

- MM-36 Characterization of integron gene cassettes in *Escherichia coli* strains isolated from blood cultures by sequence analysis**
A. Reis¹, I. Durukan¹, O. B. Özgümüş², A. O. Kılıç¹
¹Department of Medical Microbiology, Faculty of Medicine, Karadeniz Technical University, Trabzon; ²Department of Medical Microbiology, Faculty of Medicine, RecepTayyip Erdoğan University, Rize, Turkey
- MM-37 Detection and importance of *Ureaplasma urealyticum* in spermoculture**
G. Jankoska, L. Labacevska, Z. Cekovska, M. Jurhar-Pavlova, K. Popovska, M. Petrovska
 Institute of Microbiology and Parasitology, Medical Faculty, Skopje
- MM-38 Human B defensin 2 AS a promising biomarker for diagnosis of infection**
D. Marinou, V. Pitiriga, M. Mavrouli, A. Tsakris, J. Routsias
 Faculty of Medicine, Department of Microbiology, National and Kapodistrian University of Athens, Athens
- MM-39 *Bacterioides fragilis* isolated from blood culture: case report**
Z. Dansuk¹, O. A. Gurbuz¹, D. Öcal¹, M. Güney³, H. Uzar², G. Erdem¹
¹University of Health Sciences, Dışkapı Yıldırım Beyazıt Training and Research Hospital, Department of Medical Microbiology, Ankara; ²University of Health Sciences, Dışkapı Yıldırım Beyazıt Training and Research Hospital, Department of Infectious Diseases and Medical Microbiology, Ankara; ³University of Health Sciences, Gülhane Training and Research Hospital, Department of Medical Microbiology, Ankara
- MM-40 Ocular infection with *Demodex folliculorum*: a case report**
P. Chatzivasileiou^{1,2}, E. Papoutsidou², O. Mavrofydi², P. Karlovasiti², E. Kouskouni^{1,2}
¹Department of Biopathology, Aretaieio Hospital, Medical School, National and Kapodistrian University of Athens, Athens; ²Private cooperative laboratory MEDISYN, Athens
- MM-41 *Candida* vaginal colonisation: frequency of isolated strains and susceptibility to fluconazole**
P. Chatzivasileiou^{1,2}, O. Mavrofydi², C. Fotou², E. Kouskouni^{1,2}
¹Department of Biopathology, Aretaieio Hospital, Medical School, National and Kapodistrian University of Athens, Athens; ²Private cooperative laboratory MEDISYN, Athens
- MM-42 Prevalence of common pathogens isolated in semen monocultures**
E. Zampeta, S. Charpantidis, M. Tsami, T. Lazaraki, A. Vlachogiannis, S. Karampa, E. Glynou
 Department of Microbiology, General and Maternity Hospital "Helena Venizelou", Athens
- MM-43 Epidemiology of bacterial colonization in a neonatal intensive care unit and in a breastfeeding department in Greece**
S. Charpantidis¹, E. Zampeta¹, E. Zorou², S. Xydia², S. Karampa¹, T. Lazaraki¹, A. Konstantinou¹, E. Glynou¹
¹Department of Microbiology, General and Maternity Hospital "Helena Venizelou", Athens; ²Nosocomial Infection Committee, General and Maternity Hospital "Helena Venizelou", Athens
- MM-44 Intrauterine devices: isolation of microorganisms and pelvic inflammation**
S. Charpantidis, E. Zampeta, N. Mavrona, T. Lazaraki, D. Kosmatos, S. Karampa, E. Glynou
 Department of Microbiology, General and Maternity Hospital "Helena Venizelou", Athens

- MM-45 Evaluation of biofilm properties of *Myroides odoratimimus***
D. Ocal¹, E. Caliskan¹, Z. Balkan², E. Uzunoglu²
¹University of Health Sciences, Dışkapı Yıldırım Beyazıt Training and Research Hospital, Department of Medical Microbiology, Ankara; ²Giresun University School of Medicine, Department of Medical Microbiology, Giresun, Turkey
- MM-46 Antimicrobial consumption in patients admitted to pediatric wards in Skopje-results from a point prevalence survey**
E. Shaqiri¹, Sh. Memeti¹, N. Panovski², D. Osmani¹, A. Versporten³, H. Goossens³, G. Boshevska¹, V. Velikj Stefanovska⁴, L. Ballazhi¹, Z. Mustafa¹, G. Boshevska¹, M. Petrovska²
¹The National Institute of Public Health, Skopje; ²Institute of Microbiology and Parasitology, Faculty of Medicine, University "St. Kiril and Metodij" Skopje; ³Laboratory of Medical Microbiology, Vaccine and Infectious Diseases Institute (VAXINFECTIO), Faculty of Medicine and Health Science, University of Antwerp, Antwerp; ⁴Department of Epidemiology and Biostatistics, Medical Faculty, University "St. Kiril and Metodij", Skopje
- MM-47 Is hemodialysis a risk factor for CRF patients? An overview on the situation of hemodialysis in Albania**
I. Ikonomi Hoxha¹, M. Krasiniqi², F. Hodo³, E. Nishi¹, G. Kasmi¹, N. Gjermeni⁴, V. Durro¹, A. Koraqil¹
¹Department of Microbiology, University Hospital "Mother Theresa" Tirana; ²Department of Ophthalmology, University Hospital "Mother Theresa" Tirana; ³Health Care Center, Durrës; ⁴Department of Infectious Disease, University Hospital "Mother Theresa", Tirana
- MM-48 Structural and functional effects of 1/2 MIC of tobramycin on cystic fibrosis clinical isolates of *Pseudomonas aeruginosa***
D. Borisova¹, Ts. Paunova-Krasteva¹, T. Strateva², I. Mitov², S. Stoitsova¹
¹Department of General Microbiology, The Stephan Angeloff Institute of Microbiology, Sofia; ²Department of Medical Microbiology, Medical University, Sofia
- MM-49 Cultivation of oral bacteria using quorum sensing inhibitors**
E. F. Tufekci¹, S. Akcay², S. Kayipmaz², C. K. Buruk¹, I. Tosun¹, E. Ozkaya¹, F. Aydin¹, A. O. Kilic¹
¹Department of Medical Microbiology, Faculty of Medicine, Karadeniz Technical University, Trabzon; ²Department of Oral Diagnosis and Radiology, Faculty of Dentistry, Karadeniz Technical University, Trabzon
- MM-50 Epidemiological study of *Tinea capitis* in Athens, Greece: a five year retrospective analysis (2012-2016)**
G. Vrioni^{1,2}, K. Theodoridou², C. Tsiamis², E. Poutouri¹, E. Papadogeorgaki¹, S. Chryssou¹, A. Tsakris²
¹Department of Microbiology, Andreas Syggros Hospital for Skin and Venereal Diseases, Athens; ²Department of Microbiology, Medical School, University of Athens, Athens
- MM-51 Seropositivity for *Leishmania donovani* in symptomatic patients**
T. Grdanoska¹, K. Mihajlov¹, B. B. Shurbevaska¹, M. Petrovska¹, G. Jankoska¹, Z. Cekovska¹, M. Bosilkovski², N. Panovski¹
¹Medical faculty, University: Ss. Cyril and Methodius, Skopje; ²University Clinic for Infectious diseases and febrile conditions, Skopje
- MM-52 Multiplex PCR in the diagnosis of suspected central nervous system infections**
Y. Kalchev¹, M. Murdjeva^{1,2}
¹Department of Microbiology and Immunology, Faculty of Pharmacy, Medical University, Plovdiv; ²Laboratories of Microbiology and Immunology, St. George University Hospital, Plovdiv
- MM-53 A case of *Streptococcus pneumoniae* urinary isolate**
E. Akkan Kuzucu, E. Çalışkan, Z. Ş. Bayrak, I. Toker Önder, D. Öcal, G. Erdem
 University of Health Sciences, Dışkapı Yıldırım Beyazıt Training and Research Hospital, Ankara

- MM-54 Identification of *Actinomyces neuui* by MALDI-TOF MS from breast abscess: a case report**
O. C. Aktepe¹, D. D. Solen², L. Celik³, C. Yilmaz⁴, G. Goker⁴, S. Aksaray⁵
¹Bahçeşehir University, School of Medicine, Department of Medical Microbiology; ²Ümraniye Education & Training Hospital, Department of Medical Microbiology; ³Maltepe University, School of Medicine, Department of Radiology; ⁴Istanbul Oncology Hospital, Breast Health Clinic; ⁵Haydarpaşa Numune Education & Training Hospital, Department of Medical Microbiology, Haydarpaşa, Turkey
- MM-55 The prevalence os sexually transmitted infections (STI) among people who need these examinations for document issues in Tirana during 2016**
T. Sokoli-Imeraj¹, M Sinjari¹, D. Ulqinaku¹, B. Arapi¹, V. Kerxhalli¹, M Basho², Sh. Qyra²
¹Directory of Public Health Tirana; ²Institute of Public Health, Tirana
- MM-56 Comparison of sputum and deep pharyngeal swab samples for pathogen isolation in cystic fibrosis patients**
S. S. Koldas¹, A. Karahasan¹, E. Baran¹, E. Eren Fidan¹, Y. Gökdemir², E. Erdem Eralp², B. Karadağ²
¹Marmara University Faculty of Medicine, Medical Microbiology Department, İstanbul; ²Marmara University Hospital, Pediatric Pulmonology Division, İstanbul
- MM-57 A case report of spinal tuberculosis diagnosis from biopsy matherial in thioglycollate medium**
S. Satilmis¹, B. Aksu¹, V. Korten², G. Soyletir¹
¹Marmara University Faculty of Medicine, Medical Microbiology Department, İstanbul; ²Marmara University Faculty of Medicine, Infectious Disease Department, İstanbul
- MM-58 *STX1* and *STX2* frequency in patients prediagnosed with haemolytic uremic syndrome in Turkey**
E. Yazici¹, H. Uzuner¹, L. Özdemir², A. Karadenizli³
¹Kocaeli University, Institute of Health Sciences, Microbiology Department; ²Mvz Synlab, Weiden; ³Kocaeli University, Faculty of Medicine, Medical Microbiology Department, Kocaeli, Turkey
- MM-59 Prepatellar bursitis caused by group G streptococcus**
E. Altunay, Z. Ş. Bayrak, E. Çalışkan, D. Öcal, M. Çağatay, H. Saltaş, G. Erdem
 University of Health Sciences, Dışkapı Yıldırım Beyazıt Training and Research Hospital, Department of Medical Microbiology, Ankara
- MM-60 Baseline evaluation of causative agents and their susceptibility patterns of late-onset blood stream infections in a NICU**
T. Demiray¹, T. Hafizoglu², M. Koroglu³, K. Yilmaz³, M. Altindis³
¹Sakarya University Education and Research Hospital, Clinical Microbiology Laboratory, Sakarya; ²Sakarya University Education and Research Hospital, Department of Neonatology, Sakarya, ³Sakarya University Faculty of Medicine, Department of Medical Microbiology, Sakarya, Turkey
- MM-61 Professional exposure to blood and biological liquids at the health care personnel of infectious disease service**
E. Muco¹, J. Mehmeti², E. Puca¹, K. Shkurti¹, E. Meta¹, E. Qyra¹, P. Pipro¹, A. Harxhi¹
¹Infectious Disease Service, Hospital Center "Mother Tereza" Tirana; ²Infectious Diseases, Hospital of Saranda, Saranda, Albania
- MM-62 Tuberculosis in Kosovo**
Gj. Mulliqi^{1,2}, Xh. Kurhasani³, L. Raka^{1,2}, A. Kurti¹, Rr. Bajrami^{1,2}, L. Greta^{1,2}
¹National Institute of Public Health; ²Faculty of Medicine, University of Prishtina "Hasan Prishtina", Prishtina ; ³NGO KEA

- MM-63 Hospital outbreak caused by a multidrug resistant *Proteus mirabilis* clonal strain in a tertiary teaching hospital in Northern Greece**
A. Poulou¹, E. Protonotariou¹, L. Politi², O. Vasilaki¹, S. Koufos¹, I. Sgouropoulos¹, D. Papadopoulou¹, M. Veleni¹, M. Kachrimanidou¹, G. Kagkalou¹, L. Skoura¹, A. Tsakris²
¹Department of Microbiology, AHEPA, University Hospital, Aristotle University of Thessaloniki, Thessaloniki; ²Department of Microbiology, Medical School, University of Athens, Athens
- MM-64 Presentation of a rare case of *Delftia acidovorans* septicaemia in a 3 year old patient**
K. Kontopoulou¹, I. Kapsalis¹, S. Zotou¹, I. Georgitzikis¹, A. Stamou¹, V. Adamopoulos¹, M. Mitroudi², I. Sgouropoulos¹, C. Panteli², I. Patoulis², I. Valioulis², D. Sfouggaris²
¹Biopathology Laboratory, General Hospital "G. Gennimatas", Thessaloniki, Greece; ²Pediatric Surgery Clinic A.U.Th, General Hospital "G. Gennimatas", Thessaloniki
- MM-65 Pathogenicity of enterococci**
M. B. Rasovic
 University of Montenegro, Biotechnical faculty, Podgorica
- MM-66 Meningitis due to *Sphingomonas paucimobilis* in a pediatric patient: a case report**
N. Ciftci, H. Turk Dagi, G. Alkan, F. Ates, I. Tuncer
 Department of Microbiology, Faculty of Medicine, Selcuk University, Konya
- MM-67 Evaluation of the consistency of Gram stain and subculture results of blood cultures**
H. Turk Dagi, F. Ates, N. Ciftci, D. Findik, I. Tuncer
 Department of Microbiology, Faculty of Medicine, Selcuk University, Konya
- MM-68 The prevalence of *Saccharomyces cerevisiae* mucosal infection and *in vitro* antifungal susceptibility**
M. Randelović^{1,2}, J. Kostić^{1,2}, S. Momčilović¹, G. Randelović^{1,2}, S. Otašević^{1,2}
¹Faculty of Medicine, University of Niš, Niš; ²Public Health Institute, Niš
- MM-69 Determination of *Dientamoeba fragilis* prevalence and evaluation of socio-demographic and clinical features in patients with gastrointestinal symptoms**
M. Aykur¹, D. D. Erdoğan¹, C. Çalışkan Kurt², Ç. Biray Avcı², R. Vardar³, S. Ş. Aydemir⁴, N. Girginkardeşler⁵, C. Gündüz², H. Dağcı¹
¹Ege University of Medicine Faculty, Department of Parasitology, Izmir; ²Ege University School of Medicine Department of Medical Biology, Izmir; ³Ege University School of Medicine Department of Gastroenterology, Izmir; ⁴Ege University of Medicine Faculty, Department of Microbiology, Izmir; ⁵Celal Bayar University of Medicine Faculty, Department of Parasitology, Manisa, Turkey
- MM-70 Frequency, susceptibility pattern of causative organisms and incidence of peritonitis in CAPD patients in a tertiary hospital**
M. Kamperogianni, M. Orfanidou, L. P. Drosopoulou, D. Liakopoulos, C. Karagiorga, P. Konstantopoulou, G. Ganteris, E. Vagiakou.
 Microbiology Department of General Hospital of Athens "G. Gennimatas", Athens
- MM-71 Correlation of laboratory data with clinical diagnosis and treatment in patients admitted to the chest diseases polyclinic**
B. Seyrek¹, Y. A. Kalafat¹, D. I. Karataş¹, E. Uğur¹, S. Karatay¹, A. Karahasan²
¹Marmara University, Faculty of Medicine, Istanbul; ²Marmara University, Faculty of Medicine, Microbiology Department, Istanbul

November 17th 2017

Session Three A (Hall Europe)

Infectious Immunology and Biological Response Modifiers

Chair(s): Andrzej Górski, Anastas Pashov

Plenary lectures

9:00-9:20 II-1 Diagnostic value of analyses of antibody repertoire
Anastas Pashov
The Stephan Angeloff Institute of Microbiology, Bulgarian Academy of Sciences, Sofia

Oral reports

9:20-9:30 II-2 A mimotope library for IGM immunoprofiling
V. Kostov³, M. Todorova¹, V. Shivarov⁴, M. Hadjieva¹, Sh. Pashova⁵, D. Ferdinandov³, E. Hovig², L. Meza-Zepeda², A. Pashov¹
1The Stephan Angeloff Institute of Microbiology, Bulgarian Academy of Sciences, Sofia; 2Oslo University Hospital, Oslo; 3St John of Rila University Hospital, Medical University, Sofia; 4SofiaMed Hospital, Sofia; 5Institute of Biology and Immunology of Reproduction, Bulgarian Academy of Sciences, Sofia

9:30-9:40 II-3 The effect of splenectomy on the PCV-13-induced memory B- and T- cell levels
U. Gazi¹, D. Karasartova², I. T. Sahiner³, S. Gureser², O. Tosun⁴, M. Kursat Deric⁵, M. Dolapci³, A. T. Ozkan^{1,2}
1Department of Medical Microbiology and Clinical Microbiology; 2Department of Medical Microbiology, Faculty of Medicine; 3Department of General Surgery, 4Department of Biostatistics, Faculty of Medicine, Near East University, Nicosia, North Cyprus; 5Department of Medical Pharmacology, Hitit University, Corum

9:40-9:50 II-4 Retrospective evaluation of anti-neutrophil cytoplasmic antibodies
U. Arslan, N. Ciftci, F. Ates, M. Sezen, H. Turk Dagi
Department of Microbiology, Faculty of Medicine, Selcuk University, Konya

9:50-10:00 II-5 Can Th17 cytokines be used as an identification in the diagnosis of psoriasis?
E. Yıldırım¹, H. Albayrak², M. Aydın Kurç¹, G. Varol Saraçoğlu³, M.E. Yanık², G. Erfan⁴, D. Gülen¹
1Department of Medical Microbiology, Namık Kemal University, Tekirdağ, Turkey; 2Department of Skin and Venereal Diseases, Namık Kemal University, Tekirdağ; 3Department of Public Health, Namık Kemal University, Tekirdağ; 4Department of Skin and Venereal Diseases, Acıbadem University, Istanbul

- 10:00-10:10 II-6 **Seroprevalence of hepatitis B and tetanus among ezidian women fleeing war**
N. Özcan¹, Z. Kılınc Bulut², E. Evinç³, G. Yiğitalp³, T. Özekinci¹, A. Ceylan⁴
¹Dicle University, Faculty of Medicine, Department of Medical Microbiology, Diyarbakır; ²Sur Public Health Center, Diyarbakır; ³Dicle University, Atatürk Nursing College, Diyarbakır; ⁴Dicle University, Faculty of Medicine, Department of Public Health, Diyarbakır

Coffee break 10:10 – 10:30

Medical Microbiology

Chair(s): Lyudmila Boyanova, Lazar Ranin, Gabriel Ionescu

Plenary lecture

- 10:30-10:50 MM-1 **Main characteristics of *Helicobacter pylori* strains and infection in Bulgaria**
Lyudmila Boyanova
Department of Medical Microbiology, Medical Faculty, Medical University of Sofia

Oral reports

- 10:50-11:00 MM-2 **Sepsis: clinical, diagnostic, epidemiological, therapeutic aspects of it**
E. Prifti, A. Koraqi, D. Lacey, K. Deli
Service of Microbiology, UHC Mother Teresa, Tirana
- 11:00-11:10 MM-3 **Phylogenetic relationship and virulence properties of extraintestinal pathogenic *Escherichia coli***
E. Bozcal¹, V. Eldem², S. Aydemir³, M. Skurnik⁴
¹Istanbul University, Faculty of Science, Department of Biology, Basic and Industrial Microbiology Section, Istanbul; ²Istanbul University, Faculty of Science, Department of Biology, Zoology Section, Istanbul; ³Ege University, Faculty of Medicine, Department of Microbiology and Clinical Microbiology, Izmir; ⁴Helsinki University, Department of Bacteriology and Immunology, Medicum and Research Programs Unit, Immunobiology, Helsinki
- 11:10-11:20 MM-4 **Molecular-genetic and biochemical characterization of clinical *Pseudomonas* spp. isolates**
M. Milojković¹, Ž. Nenadović¹, N. Stanković Nedeljković², I. Ćirković³, D. Božić⁴, T. Berić¹, S. Stanković¹, I. Dimkić¹
¹Faculty of Biology, University of Belgrade, Belgrade; ²Health Center "Aleksinac", Aleksinac, Serbia; ³Institute of Microbiology and Immunology, Faculty of Medicine, University of Belgrade, Belgrade; ⁴Department of Microbiology and Immunology, Faculty of Pharmacy, University of Belgrade, Belgrade
- 11:20-11:30 MM-5 **Invasiveness, intracellular survival and replication of *Pseudomonas aeruginosa* PAO1 in cultured lung carcinoma A549 cells**
Ts. Paunova-Krasteva, V. Velkova, D. Borisova, S. Stoitsova
The Stephan Angeloff Institute of Microbiology, Bulgarian Academy of Sciences, Sofia

- 11:30-11:40 MM-6 *Bordetella bronchiseptica* causing lung infection in a immunocompetent man**
E. Muco¹, J. Mehmeti², M. Kermaj³, G. Kasmi⁴, V. Mano⁴, P. Pipero¹, A. Harxhi¹
¹Infectious Diseases Service, University Hospital Center “Mother Tereza” Tirana; ²Infectious Diseases, Hospital of Saranda; ³Endocrinology Service, University Hospital Center “Mother Tereza”, Tirana; ⁴Service of Microbiology, Hospital Center “Mother Tereza”, Tirana
- 11:40-11:50 MM-7 **Accurate extra-pulmonary tuberculosis detection with xpert MTB/RIF assay****
B. Curcic¹, V. Filipovski¹, I. Mostrov², S. Rajovski¹, Dz. Jasar¹
¹Diagnostic Laboratories; ²Department of Plastic Surgery; Clinical Hospital Acibadem Sisitna, Skopje
- 11:50-12:00 MM-8 **Prevalence and antibiotic susceptibility of *Ureaplasma urealyticum* and *Mycoplasma hominis* in sexually-active women in Romania****
A-M. Născuțiu^{1,2}, M. D. Ionescu^{1,2}, G. Ionescu^{1,2}
¹Cantacuzino National Institute of Research, Bucharest, ²“Carol Davila” University of Medicine and Pharmacy, Bucharest
- 12:00-12:10 MM-9 **Can microorganisms associated with household red-eared sliders (*Trachemys scripta elegans*) carry potential risks for human health?****
Y. Kaklıkkaya¹, E. Özkaya², K. Buruk³
¹TEV İnanc Turkes High School, Kocaeli; ²Karadeniz Technical University Medical Faculty Department of Microbiology, Trabzon
- 12:10-12:20 MM-10 **Cumulative antibiogram dataset of cystic fibrosis patients in a university hospital in Istanbul****
E. Eren Fidan¹, A. Karahasan¹, S. S. Koldaş¹, G. Altınkanat Gelmez¹, Y. Gökdemir², E. Erdem Eralp², B. Karadağ²
¹Marmara University Faculty of Medicine, Medical Microbiology Department, İstanbul ²Marmara University Hospital, Pediatric Pulmonology Division, İstanbul
- 12:20-12:30 MM-11 ***Eikenella corrodens* wound infection secondary to human bite: case report****
E. Akkan Kuzucu, E. Çalışkan, Z.Ş. Bayrak, D. Öcal, M. Çağatay, H. Saltaş, G. Erdem
 University of Health Sciences, Dışkapı Yıldırım Beyazıt Training and Research Hospital, Ankara
- 12:30-12:40 MM-12 **MM14 Investigation of viral and bacterial agents in the respiratory samples of neutropenic patients by Real time polymerase chain reaction****
H. Ağca¹, H. Akalin², R. Ali³, E. D. Cetinoglu⁴, B. Dalyan Cilo¹, E. Kazak², F. Ozkalemkas³, B. Ener¹
¹Department of Medical Microbiology, Faculty of Medicine, Uludag University, Bursa; ²Department of Infectious Diseases and Clinical Microbiology, Faculty of Medicine, Uludag University, Bursa; ³Department of Internal Medicine, Faculty of Medicine, Uludag University, Bursa; ⁴Department of Chest Diseases, Faculty of Medicine, Uludag University, Bursa.

12:40-12:50 MM13 Evaluation of efficacy of endoscope reprocessing by ATP method and bacterial cultivation
E. Eren Fidan¹, A. Karahasan¹, B. Aksu¹, G. Zaman², A. Öztürk², A. Çırak³
¹Marmara University Faculty of Medicine, Medical Microbiology Department, İstanbul; ²Marmara University Hospital, Endoscopy Unit, Pendik/İstanbul; ³Marmara University Hospital, Sterilization Unit, Pendik/İstanbul

12:50-13:00 MM14 Invasive group b streptococcal disease: the emergence of hypervirulent clone ST-17
I. Gajic, L. Ranin
¹Institute of Microbiology and Immunology, Medical Faculty, University of Belgrade, Belgrade

Lunch break (13:00 -14:00)

Session Four A (Hall Europe)

Chair(s): Peter Raspor, Galina Sachanska

Varia

Plenary lecture

- 14:00-14:20 Var-1 **External quality assessment in microbiology. Pitfalls and tips**
Gabriel Ionescu^{1,2}, **A.-M. Nășcuțiu**^{1,2}
¹Cantacuzino NIR; ²Carol Davila UMPH, Bucharest

Food Microbiology and Food Safety

Plenary lectures

- 14:20-14:40 FM-1 **Risk communication in the case of microbial contamination**
Peter Raspor
Guest professor at University of Vienna, Retired professor of Industrial Microbiology and Biotechnology from University of Ljubljana, Ljubljana
- 14:40-15:00 FM-2 **Challenges to foodborne infections**
Maya Zaharieva, Hristo Najdenski
The Stephan Angeloff Institute of Microbiology, Bulgarian Academy of Sciences, Sofia

Oral reports

- 15:00-15:10 FM-3 **Detection of Staphylococcal enterotoxins in bulk milk tanks by ELISA**
E. Keyvan¹, **O. Yurdakul**¹, **F. Kocasarı**², **A. Demirtas**³, **H. Tutun**², **H. A. Kahraman**¹, **E. Sen**¹
¹Mehmet Akif Ersoy University, Faculty of Veterinary Medicine, Department of Food Hygiene and Technology, Burdur; ²Mehmet Akif Ersoy University, Faculty of Veterinary Medicine, Department of Pharmacology and Toxicology, Burdur; ³Mehmet Akif Ersoy University, Faculty of Veterinary Medicine, Department of Physiology, Burdur, Turkey
- 15:10-15:20 FM-4 **Investigation of the presence of *Listeria monocytogenes* in white cheese samples presented for consumption in Istanbul**
N. Kaya¹, **E. Ö. Arslan-Aydoğdu**², **A. Kimiran**²
¹Istanbul University, Institute of Sciences, Istanbul; ²Istanbul University, Faculty of Sciences, Department of Biology, Istanbul

15:20-15:30 FM-5 Determination of carbon assimilation profiles for identification of *Saccharomyces cerevisiae* strains isolated from turkish sourdoughs

B. Solak, Z. Y. Ozbas

Hacettepe University, Faculty of Engineering, Food Engineering Department, Beytepe, Ankara

15:30-15:40 FM-7 Effect of infrared, ultraviolet-c radiations and vacuum drying methods on microbial characteristics of stuffed pasta (manti)

S. Gokmen¹, A. Kocabas², I. Savran², A. Sayaslan³, M. Fatih Aydin⁴, H. Yetim⁵

¹Department of Food Processing, Technical Vocational School of Karamanoglu Mehmetbey University, Karaman, ²Department of Biology, Karamanoglu Mehmetbey University, Karaman; ³Department of Food Engineering, Karamanoglu Mehmetbey University, Karaman; ⁴Department of Public Health, Faculty of Health Science, Karamanoglu Mehmetbey University, Karaman; ⁵Department of Gastronomy and Culinary Arts, Istanbul Gelisim University, Istanbul

15:40-15:50 FM-8 The microbiological quality of edible nuts

I. Var, S. Saglam, O. Uçkun

Cukurova University, Faculty of Agriculture, Dept of Food Engineering, Adana

15:50-16:00 FM-9 Detection of *Paenibacillus larvae* spores in bulgarian commercial honey

K. Gurgulova¹, S. Takova¹, P. Orozova¹, D. Salkova²

¹National Diagnostic & Research Veterinary Medical Institute „Prof. Dr. G. Pavlov“, Sofia; ²Institute of Experimental Morphology, Pathology and Anthropology with Museum, Bulgarian Academy of Sciences, Sofia

Coffee break 16:00 – 16:30

16:30 – 17:30 *Panel: Microbiology of animal products and consumer health*

Moderators:

Gurhan Ciftcioglu, Harun Aksu

Faculty of Veterinary Medicine, Food Hygiene and Technology Department, Avcilar, Istanbul

Antibiotic resistant food pathogens and future concerns on health

A. Aydin¹, M. Sudagidan²

¹Istanbul University, Faculty of Veterinary Medicine, Department of Food Hygiene and Technology, Avcilar/Istanbul; ²Konya Food & Agriculture University, SARGEM, Meram/ Konya

Prevalence, antibiotic resistance and virulence characteristics of enterococci in raw and processed seafood products”

M. Çardak¹, M. Ay², S. Özmen Toğay³, E. Aydın⁴, Ö. Erol Tınaztepe⁴, O. Karaalioglu³, U. Bağcı⁵, Z. Yıldırım⁶

¹Department of Fisheries Technology, School of Applied Science at Çanakkale, Çanakkale Onsekiz Mart University, Çanakkale; ²Department of Food Technology, School of Applied Science at Çanakkale, Çanakkale Onsekiz Mart University, Çanakkale; ³Department of Food Engineering, Faculty of Agriculture, Uludağ University, Bursa; ⁴Graduate School of Natural and Applied Sciences, Çanakkale Onsekiz Mart University, Çanakkale; ⁵Department of Food Engineering, Faculty of Engineering, Trakya University, Edirne; ⁶Department of Food Engineering, Faculty of Engineering, University of Niğde Ömer Halisdemir, Niğde, Turkey

Emerging foodborne pathogens and public health strategies

S. Bilir Ormanci

Ankara University Faculty of Veterinary Medicine Food Hygiene and Technology Department, Ankara

Microbiological risks in seafood and possible consumer health affects

U. Gunsen

University of Bandirma Onyedi Eylül, Faculty of Health Science, Department of Nutrition and Dietetic, Balikesir, Turkey

Session Three B (Hall Kiev)

New Antimicrobial Agents (Part 2)

Chair(s): Ivan Mitov, Milena Petrovska

Plenary lecture

- 9:00-9:20 AntM-4 Antimicrobial compounds from *Bacillus* spp. and their possible use**
Tanja Berić, S. Stanković, Dj. Fira
Faculty of Biology, University of Belgrade
- 9:20-9:40 AntM-5 Natural antimicrobial properties of plant extracts**
Dragoslava Radin¹, K. Savikin²
¹Medical Faculty, University of Belgrade; ²Institute for Medical Plant Research "Dr Iosif Pancic", Belgrade

Oral reports

- 9:40-9:50 AntM-6 Synthesis and antimicrobial activity of some pyrazoline derivatives**
B. Evranos Aksöz¹, S. S. Gurpınar², M. Eryılmaz²
¹Medicines and Medical Devices Agency, Analyses and Control Laboratories, Ankara;
²Ankara University, Faculty of Pharmacy, Department of Pharmaceutical Microbiology, Ankara
- 9:50-10:00 AntM-7 Investigations on synthesis and antimicrobial activity of some pyrazoline and hydrazone derivatives**
B. Evranos Aksöz¹, S. S. Gurpınar², M. Eryılmaz²
¹Medicines and Medical Devices Agency, Analyses and Control Laboratories, Ankara;
²Ankara University, Faculty of Pharmacy, Department of Pharmaceutical Microbiology, Ankara
- 10:00-10:10 AntM-8 Antifungal activities of selective serotonin reuptake inhibitors (SSRIs) alone and in combination with fluconazole**
Y. Tekintas¹, A. Temel², A. Ates², B. Erac², D.Y. Metin³, S. Hilmioglu-Polat³, M. Hosgor-Limoncu²
¹Izmir Katip Celebi University, Faculty of Pharmacy, Department of Pharmaceutical Microbiology, Izmir; ²Ege University, Faculty of Pharmacy, Department of Pharmaceutical Microbiology, Izmir; ³Ege University, Faculty of Medicine, Department of Medical Microbiology, Izmir
- 10:30-10:40 AntM-9 Cloning, expression and antibacterial activity assessment of lysin from *Staphylococcus aureus* bacteriophage, Φtrsa14**
M.A. Abdurahman, I. Tosun, Kiliçao
Karadeniz Technical University, Faculty of Medicine, Department of Medical Microbiology, Trabzon

10:40-10:50 AntM-10 Antibiotic and anti-inflammatory drug combinations: alterations on the expression of virulence genes and protein a of *Staphylococcus aureus*

I. Ozturk¹, Y. Erac², P. Ballar-Kirmizibayrak³, S. Ermertcan⁴

¹Izmir Katip Celebi University, Faculty of Pharmacy, Department of Pharmaceutical Microbiology, Izmir; ²Ege University, Faculty of Pharmacy, Department of Pharmacology, Izmir; ³Ege University, Faculty of Pharmacy, Department of Biochemistry, Izmir; ⁴Ege University, Faculty of Pharmacy, Department of Pharmaceutical Microbiology, Izmir

Coffee break 10:10 – 10:30

10:50-11:00 AntM-11 Elucidation of mutagenic and antimutagenic potentials of some commercial anthraquinones by salmonella/microsome test system

Y. Durak¹, A. Uysal², E. Güneş¹, G. Zengin¹

¹Selcuk University, Science Faculty, Department of Biology, Konya; ²Selcuk University, Vocational School of Health Services, Department of Medicinal Laboratory, Konya

11:00-11:10 AntM-12 Phenolic profile, antioxidative and antimicrobial activity of „orange and blue subtypes” of turkish propolis

I. Dimkić¹, P. Ristivojević², J. Trifkovic², E. Guzelmeric³, M. Knežević, T. Berić², E. Yesilada³, D. Milojković-Opsenica⁴, S. Stanković²

¹Faculty of Biology, University of Belgrade, Belgrade; ²Innovation Centre of Faculty of Chemistry Ltd, Belgrade; ³Yeditepe University, Faculty of Pharmacy, Department of Pharmacognosy and Phytotherapy, Istanbul; ⁴Faculty of Chemistry, University of Belgrade, Belgrade

11:10-11:20 AntM-13 Investigation into the antimicrobial activities of tincture prepared from twenty six plants growing in Macedonia

N. Atanasova-Pancevska, Dz. Kungulovski

Department of Microbiology and Microbial Biotechnology, Institute of Biology, Faculty of Natural Sciences and Mathematics, “Ss. Cyril and Methodius” University, Skopje

11:20-11:30 AntM-14 Antimicrobial activities of 6-substituted-3(2h)-pyridazinone-2-acetyl-2-(substitutedbenzal/acetophenone) hydrazone derivatives

G. B. Abiha¹, L. Bahar¹, S. Utku²

¹Vocational School of Medical Services, Mersin University, Mersin, ²Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Mersin University, Mersin, Turkey

11:30-11:40 AntM-15 Antimicrobial activities of fractions from the mucus of garden snail *Cornu aspersum*

Y. Voynikov¹, A. Dolashki¹, P. Hristova², S. Stevanovic³, E. Krumova², J. Miteva-Staleva², M. Angelova², P. Dolashka¹

¹Institute of Organic Chemistry with Centre of Phytochemistry, BAS, Sofia; ²The Stephan Angeloff Institute of Microbiology, Bulgarian Academy of Sciences, Sofia; ³University of Tübingen, Interfaculty Institute for Cell Biology, Department of Immunology, Tübingen

11:40-11:50 AntM-16 Antimicrobial activity of proteins and peptides isolated from extract of the garden snail *Cornu aspersum*

L. Velkova¹, A. Dolashki¹, L. Molin², P. Traldi², Y. Voinikov¹, R. Velikova¹, W. Voelter³, P. Dolashka¹

¹Institute for Organic Chemistry with Center for Phytochemistry, Bulgarian Academy of Sciences, Sofia; ²CNR-ISTM, Padova; ³Interfaculty Institute of Biochemistry, University of Tübingen, Tübingen

- 11:50-12:00 AntM-17** **Bioprospecting potential of soil streptomycetes: novel enzymes and bioactive molecules**
B. Vasiljevic
Laboratory for Microbial Molecular Genetics and Ecology Institute of Molecular Genetics and Genetic Engineering (IMGGE), University of Belgrade, Belgrade
- 12:00-12:10 AntM-18** **Antimicrobial activities of ceftolozane-tazobactam and ceftazidime-avibactam against carbapenem resistant *Escherichia coli*, *Klebsiella pneumoniae*, and *Pseudomonas aeruginosa***
D. Öcal, E. Çalışkan, Z. Ş. Bayrak, İ. Toker Önder, E. B. Tanık, E. Akkan Kuzucu, M. Çağatay, G. Erdem
University of Health Sciences, Dışkapı Yıldırım Beyazıt Training and Research Hospital, Ankara
- 12:10-12:10 AntM-19** **Antimicrobial activity of some marine derived fungi ANTI-M34**
H. Heydari¹, N. Altanlar², D. Şimşek², B. Konuklugil¹
¹Pharmacognosy Department of Ankara University, Ankara; ²Pharmaceutical Microbiology Department of Ankara University, Ankara
- 12:20-12:30 AntM-20** **Effects of *Nigella sativa* L.'s essential oils on multi drug resistant *E. coli* isolates**
N. Duran¹, AY. Emrah¹, S. Bayraktar¹, S. Çolak¹, D. A. Kaya²
¹Microbiology & Clinical Microbiology Department, Medical Faculty, Mustafa Kemal University, Hatay; ²Department of Field Crops, Agriculture Faculty, Mustafa Kemal University, Hatay, Turkey
- 12.30-12.50** ***Alex 1977 Ltd***

Lunch break (13:00 -14:00)

Session Four B (Hall Kiev)

Nosocomial Infections

Chair(s): Rossitsa Vacheva-Dobrevska, Achilleas Gikas

Plenary lectures

- 14:00-14:20 Nos-1** **Contemporary approaches for HAI prevention: close communication with clinicians to transfer science into practice**
Rossitsa Vacheva-Dobrevska¹, N. Gatcheva², A. Kevorkian³, V. Voynova-Georgieva⁴, L. Deleva⁵
¹University Hospital "Queen Joanna", Sofia; ²Bulgarian Association for Infection Prevention and Control "BulNoso"; ³Medica IUniversity, Plovdiv; ⁴Military Medical Academy, Sofia; ⁵University Hospital "St Anna", Sofia
- 14:20-14:40 Nos-2** **Surveillance and control of nosocomial infections: the Greek experience**
Achilleas Gikas
University General Hospital of Heraklion, Crete

Oral reports

- 14:40-14:50 Nos-3** **Nosocomial transmission becomes a common risk factor for spread of measles under elimination: impact and implications**
N. Gatcheva¹, A. Kevorkyan², Z. Mihneva³, L. Marinova³
¹Bulgarian Association for Prevention of Nosocomial Infections, BulNoso, Sofia; ²Department of Epidemiology and Disaster Medicine, Medical University of Plovdiv, Plovdiv; ³National Center of Infectious and Parasitic Diseases, Sofia
- 14:50-15:00 Nos-4** **Addressing the challenge of antimicrobial resistance with limited resources: Kosovo case**
L. Raka^{1,2}, Gj. Mulliqi^{1,2}, A. Kurti¹, Rr. Bajrami^{1,2}, G. Lila^{1,2}
¹National Institute of Public Health of Kosovo, Prishtina; ²Faculty of Medicine, University of Prishtina "Hasan Prishtina", Prishtina
- 15:00-15:10 Nos-5** **Multidrug resistant pathogens spread-a growing challenge in healthcare system**
R. Vatcheva-Dobrevska, P. Stefanova, V. Dicheva
Microbiology and Virology Department, University Hospital Queen Joanna, Sofia
- 15:10-15:20 Nos-6** **Etiologic aspects of bacteremia in hospitalized patients at the university hospital center "Mother Theresa" in Tirana**
K. Deli (Alabaku)¹, A. Koraqi^{1,2}, D. Lacey¹, E. Prifti¹
¹University Hospital Center "Mother Theresa", Laboratory of Clinical Microbiology; ²Medical University of Tirana, Faculty of Medicine, Tirana
- 15:20-15:30 Nos-7** **Acinetobacter – an increasing problem for hospital infectious pathology**
E. Savov¹, A. Trifonova¹, T. Strateva², E. Kioseva¹, Y. Pfeifer³
¹Military Medical Academy, Sofia; ²Medical University, Sofia; ³Robert Koch Institut, Wernigerode

- 15:30-15:40 Nos-8 Nosocomial outbreak due to *Burkholderia cepacia***
D. Öcal¹, E. Altunay¹, E. A. Kuzucu¹, E. Çalışkan¹, G. Erdem¹, O. A. Gürbüz¹, Z. Dansuk¹, H. Saltaş¹, M. Çağatay¹, N. Çöplü², A. Tekeli³
¹University of Health Sciences, Dışkapı Yıldırım Beyazıt Training and Research Hospital, Department of Medical Microbiology, Ankara; ²Kastamonu University School of Medicine, Department of Medical Microbiology, Kastamonu; ³Ankara University School of Medicine, Department of Medical Microbiology, Ankara
- 15:40-15:50 Nos-9 Investigation of the widespread carbapenemase genes in carbapenem resistant *A. calcoaceticus-a. baumannii* complex isolates isolated from nosocomial infections by genotypic and phenotypic methods**
H. Bolukbasi¹, A. K. Adilgözü², U. Onde²
¹Microbiology Department, Health Sciences University Ankara Dr. Sami Ulus Women's Health and Children's Research and Education Hospital, Ankara; ²Microbiology Department, Health Sciences University Ankara Research and Education Hospital, Ankara

Coffee break 16:00 – 16:30

Chair(s): Hristo Najdenski, Gurhan Ciftcioglu

Zoonoses

Oral reports

- 16:30-16:40 Zoo-1 Investigation of cross-transmission dynamics of brucellosis observed in children in the province of Diyarbakir and phylogenetic tree of the *Brucella* isolates**
T. Dal¹, R. Durmaz¹, A. Ceylan², F. Bacalan³, A. Karagöz⁴, B. Çelebi⁴, E. Yaşar⁵, S. Kılıç⁴, C. Açıkgöz¹
¹Medical Microbiology Department, Ankara Yıldırım Beyazıt University Faculty of Medicine, Ankara; ²Public Health Department, Dicle University Medical Faculty, Diyarbakır; ³Diyarbakır Pediatric Diseases Hospital, Diyarbakır; ⁴Public Health Institution of Turkey, Ankara; ⁵Memorial Hospital Medical Microbiology Laboratory, Diyarbakır
- 16:40-16:50 Zoo-2 Prevalence and antimicrobial resistance among *Campylobacter* spp. isolated from human in “Mother Theresa “University Hospital in Tirana, Albania**
D. Lacey¹, B. Arapi², O. Petri³, M. Dibra⁴, A. Koraqi¹
¹University of Medical Science Tirana; ³Institute of Public Health; ⁴Private Laboratory, Tirana
- 16:50-17:00 Zoo-3 Cystic echinococcosis in Karaman from 2010 to 2017**
M. F. Aydın
Department of Public Health, Faculty of Health Science, Karamanoglu Mehmetbey University, Karaman, Turkey

Veterinary Microbiology

Oral reports

- 17:00-17:10 VM-1** ***In vitro* alteration of rumen bacterial population by a green leaf volatile, cis-3-hexenal, determined using real-time PCR**
A. Demirtas¹, M. Sudagidan², O. Yavuz³, E. Keyvan⁴, O. Yildiz-Gulay¹, H. Ozturk⁵
¹Mehmet Akif Ersoy University, Faculty of Veterinary Medicine, Department of Physiology, Burdur, ²Konya Food and Agriculture University, SARGEM R&D Center, Meram, Konya; ³Mehmet Akif Ersoy University, Scientific and Technology Application and Research Center, Burdur; ⁴Mehmet Akif Ersoy University, Faculty of Veterinary Medicine, Department of Food Hygiene and Technology, Burdur; ⁵Ankara University, Faculty of Veterinary Medicine, Department of Physiology, Diskapi, Ankara.
- 17:10-17:20 VM-2** **Development of ELISAs based on specific recombinant PVPA protein and the synthetic peptides for screening and confirmatory diagnosis of *Mycoplasma gallisepticum* infections in chicken**
Ö. Büyüktanır Yaş¹, O. Genç², N. Yurdusev⁴
¹Assoc. Prof. Ondokuz Mayıs University, Faculty of Veterinary Medicine, Department of Microbiology, Samsun; ²Prof. Dr. Ondokuz Mayıs University, Faculty of Veterinary Medicine, Department of Microbiology, Samsun; ³Prof. Dr. BioOptimum Health and Biotechnology Corp., Çankaya, Ankara.
- 17:20-17:30 VM-3** **Therapeutic alternatives to antibiotic administration in veterinary medicine**
A. Chiurciu, V. Chiurciu, C. Stoica, G. Oltean, B. Frunzareanu, D. Banciu, E. Lupu, C. Uluitu, D. Oprisiu, P. Stefan, I. Ionescu, V. Filip, C. Tudoran, I. Nicolae, L. Diaconu, S. Stanculescu, A. Radu, P. Chitonu
Romvac Company SA, Voluntari – Ilfov, Romania
- 17:30-18:00 Workshop: From results to a paper: How to write up and present your study effectively**
Curator: Panayotis Tassios
Department of Microbiology, Medical School, National & Kapodistrian University of Athens, Athens

Poster Session Two

18:00 – 19:00

FM, Var, NOS, VM, Zoo, V, EM, Ant R, P, PP

Food Microbiology

- FM-10** **Detection of *Paenibacillus larvae* spores in bulgarian commercial honey**
K. Gurgulova¹, S. Takova¹, D.Salkova², P. Orozova¹
¹National Diagnostic & Research Veterinary Medical Institute „Prof. Dr. G. Pavlov“, Sofia; ²Institute of Experimental Morphology, Pathology and Anthropology with Museum, Bulgarian Academy of Sciences, Sofia
- FM-11** **Investigating the presence of *Escherichia coli* O157:H7 in minced beef and hamburger meatballs which consumed in Aydin region**
E. Sezgin¹, F.Kök²
¹Manisa; ²University of Adnan Menderes, Faculty of Veterinary, Department of Food Hygiene and Technology, Aydin, Turkey
- FM-12** **Dependence of microbiological profile of tea by their types and characteristics**
I.Filipović, D. Vuković
SP Laboratory, Microbiological Department, Bečej, Serbia
- FM-13** **The importance of control regarding good hygienic practice in implementation of HACCP during food handling procedure**
S. Paunović¹, T. Radunović¹, M. Lopičić¹, Lj. Terić¹, S. Stanišić²
¹Public Health Institute of Montenegro, Podgorica; ²Clinical Centre of Montenegro, Podgorica
- FM-14** **The importance of examination of food contact surfaces**
T. Radunović¹, S. Paunović¹, M. Lopičić¹, Lj. Terić¹, S. Stanišić²
¹Public Health Institute of Montenegro, Podgorica; ²Clinical Centre of Montenegro, Podgorica
- FM-15** **Antimicrobial potential of broccoli extracts**
B. P. Onsekizoglu, U. Bagci, E. Yilmaz
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- FM-16** **Antimicrobial resistance in fish pathogens isolated from cultured rainbow trout in Turkey**
R. E. Yardimci, E. Turgay, S. Karataş
Department of Fish Diseases, Faculty of Aquatic Sciences, Istanbul University, Istanbul
- FM-17** **Comparison of two different methods for the determination of residues of tetracycline antibiotics in beef and chicken meat**
N. Koç, I. Karalti
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- FM-18** **Natural food antimicrobials**
N. Öncül
Muğla Sıtkı Koçman University, Department of Nutrition and Dietetics, Fethiye/Muğla, Turkey

- FM-19 Isolation and identification of *Hafnia alvei* from bees**
P. Orozova¹, K. Gurgulova¹, S. Takova, D. Salkova², I. Sirakov³
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- FM-20 Antibacterial activity of polyfloral and honeydew organic honey**
G. Ivanova, A. Doycheva, G. Satchanska
 BioLab, Department Natural Sciences, New Bulgarian University, Sofia
- FM-21 Determination of EPS production of *Lactobacillus* sp. isolated from traditional cheeses**
S. Dogan
 Gazi University, Life Science Application and Research Center, Ankara
- FM-22 Partial genome analysis of intimin (*eae*) positive *Escherichia coli* isolates from food**
I. Sirakov¹, R. Popova², I. Alexandar³, T. Strateva¹, H. Daskalov², I. Mitov¹
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Varia

- Var-2 Bacterial colonization of burn wounds**
A. Kaftandzieva¹, M. Stevkovska², E. Ivanovska¹, N. Ristovska¹, Z. Cekovska¹
¹Institute of Microbiology and Parasitology, Medical Faculty, UKIM Skopje; ²Special Surgical Hospital „St. Naum Ohridski“, Skopje
- Var-3 Hygienic status of groundwater sources from Stara Zagora district**
A. Petrov¹, G. Beev², D. Dermendzhieva³, T. Dinev², M. Tzanova², S. Denev²
¹Trakia University, Faculty of Medicine, Department of Health care, Stara Zagora; ²Trakia University, Faculty of Agriculture, Department of Biochemistry, Microbiology and Physics, Stara Zagora; ³Trakia University, Faculty of Agriculture, Department of Applied Ecology and Animal Hygiene, Stara Zagora
- Var-4 The seasonal variations of 25(OH) vitamin D levels in a Greek population**
P. Chatzivasileiou^{1,2}, C. Ntinis², I. Manko², C. Christopoulos², S. Bougiatioti², N. Laspakis², K. Kotsi², E. Kouskouni^{1,2}
¹Department of Biopathology, Aretaieio Hospital, Medical School, National and Kapodistrian University of Athens, Athens; ²Private cooperative laboratory MEDISYN, Athens
- Var-5 The epidemiological and the clinical data of children aged 6-24 months in the city of Durres, Albania.**
E. Malaj
 UAMD University, Durres
- Var-7 The Bulgarian participation in the creation of mumps vaccine**
H. Odisseev
 National Centre of Infectious and Parasitic Diseases, Sofia

Nosocomial Infections

- Nos-10** **Detection of antibiotics susceptibility and biofilm formation in *Staphylococcus aureus* isolated from bloodstream infections**
S. Ozdemir, O. Aydogan, F. Koksal
Istanbul University, Cerrahpasa Faculty of Medicine, Istanbul
- Nos-11** **Nosocomial methicillin-resistant *Staphylococcus aureus* in Montenegro – a comparison of two surveys with three years interval**
M. Lopčić, S. Paunović, T. Radunović, G. Mijović
Institute of Public Health, Podgorica
- Nos-12** **Epidemiological surveillance of *Clostridium difficile* cases in a tertiary hospital of Thessaloniki, Northern Greece**
O. Tsachouridou¹, I. Ziogas¹, E. Christaki¹, E. Protonotariou², M. Chasampalioti³, S. Metallidis¹, L. Skoura², M. Kachrimanidou³
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- Nos-13** **Presence of *Acinetobacter* species in intensive care unit environment**
B. Petrovska, B. Boceska, D. Osmani, S. Cvetkovikj, E. Coneva, Sh. Memeti
Institute of Public Health of Republic, Skopje
- Nos-14** **Detection of an autoinducer synthase, *abai* gene and biofilm production in *Acinetobacter baumannii* isolated from blood cultures of hospitalized patients, and their relationship with carbapenem resistance**
H. Ari¹, O. Aydogan¹, M. Demirci², F. Koksak Cakirlar¹
¹Istanbul University Cerrahpasa Medical Faculty, Department of Medical Microbiology, Istanbul; ²Beykent University Medical Faculty, Department of Medical Microbiology, Istanbul
- Nos-15** **The frequency of ESBL producing *Klebsiella* spp. Isolated from various clinical samples**
M. Bayraktar, E. Ceylan
Harran University, Faculty of Medicine, Department of Medical Microbiology, Sanliurfa, Turkey
- Nos-16** **The toxic potential of Bulgarian clinical isolates *Staphylococcus aureus* determined by multiplex PCR**
V. Tsitou¹, R. Gergova¹, A. Muhtarova¹, I. Gergova², I. Mitov¹
¹Department of Medical Microbiology, Medical University, Sofia; ²Department of Military Epidemiology and Hygiene, Military Medical Academy, Sofia
- Nos-17** **Identification of anaerobe bacteria by using Maldi-Tof during one-year period: data from third level state hospital, Istanbul**
T. Erkmen, E. Akpınar, Ö. Doğan, G. Balköse, E. Boz, R. Adaleti, S. Aksaray
Haydarpaşa Numune Research and Training Hospital Microbiology Laboratory, Istanbul
- Nos-18** ***Acinetobacter baumannii* xdr – a difficult challenge in hospital infection control and therapy of infections**
E. Keuleyan, A. Simidchiev, Sh. Tete, D. Panayotova
Medical Institute at Ministry of the Interior, Sofia

- Nos-19 Study of *K. pneumoniae*, *P. aeruginosa* and *A. baumannii* complex strains in non-hospitalized patients**
K. Kontopoulou, S. Zotou, I. Kapsalis, C. Belai, I. Sgouropoulos, A. Stamou, V. Adamopoulos, S. Vasleiou, I. Mavrovouniotis, A. Ifantidou, I. Georgitzikis
Biopathology Laboratory General. Hospital. "G. Gennimatas", Thessaloniki
- Nos-20 Species distribution of yeast isolates collected between 2014-2016: data from eleven hospitals in Istanbul, Turkey**
Ö. Doğan, D. Turan, F. Özakkaş, Ş. Dinçer, S. Aksaray
Istanbul Northern Anatolian Association of Public Hospitals Central Laboratory, Istanbul
- Nos-21 Molecular characterization of *Klebsiella pneumoniae* strains isolated from healthcare units**
B. Lixandru¹, C. Usein^{1,2}, C. Dragomirescu^{1,2}, D. Cristea¹, S. Ciontea¹, M. Mocanu²,
I. Codita^{1,2}
¹Cantacuzino" National Institute of Research, Bucharest; ²Carol Davila" University of Medicine and Pharmacy, Bucharest
- Nos-22 MRSA from blood cultures and wounds – new data**
Z. Cekovska¹, A. Kaftandzieva¹, B. Kakaraskoska Boceska², K. Popovska¹, N. Ristovska¹, G. Jankoska¹, N Panovski¹
¹Institute of Microbiology and Parasitology, Medical Faculty, University, "Ss Cyril and Methodius", Skopje; ²Institute for Public Health, Skopje
- Nos-23 Genome-wide mapping targets of the RNA-binding protein RSMN in *Pseudomonas aeruginosa***
H. Silistre^{1,2}, M. Romero², L. Lovelock², V. Wright², G. Chan³, K. Hong³, P. Williams², M. Cámara², S. Heeb²
¹Institut Pasteur, Paris; ²University of Nottingham, University Park, Nottingham; ³University of Malaya, Kuala Lumpur
- Nos-24 Epidemiology of *Staphylococcus aureus* bacteraemia over a three year period in a tertiary hospital of Greece**
A. Bakossi, M. Demetriou, I. Daniil, F. Kouskoumbekou, N. Tiliakos, P. Karle
Department of Microbiology, General Hospital of Nikaia Agios Panteleimon, Athens
- Nos-25 Neonatal Candidemia: species distribution and antifungal susceptibility over a 11-year period (2006-2017) in a tertiary Greek hospital**
A. Bakossi, M. Demetriou, I. Daniil, M. Koutraki, V. Salomidis, P. Karle
Department of Microbiology, General Hospital of Nikaia Agios Panteleimon, Athens
- Nos-26 Molecular identification of *Campylobacter* species isolated from human materials**
C. Eryıldız¹, K. Tabakçioğlu², M. Uğur¹, N. Sakru¹
¹Department of Medical Microbiology, Faculty of Medicine, Trakya University, Edirne;
²Department of Medical Biology, Faculty of Medicine, Trakya University, Edirne
- Nos-27 Investigation of carbapenemases in clinical isolates of *Pseudomonas aeruginosa***
Y. Tanriverdi, I. Biyik, A. Birinci
Ondokuz Mayıs University, Medical School, Department of Medical Microbiology, Samsun
- Nos-28 Clinical, epidemiological and microbiological characteristics of patients with *Clostridium difficile* infection in a Greek tertiary hospital**
M. Adami, M. Gkika, A. Aristodimou, P. Ioannou, A. Panoskaltzis, A. Gikas
University of Crete, School of Medicine / Infection Control Unit, Greece

- Nos-29 First results of antimicrobial prescribing in Albanian hospitals**
D. Lacey¹, A. Versporten², A Koraqi¹
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²Laboratory of Medical Microbiology, Vaccine and Infectious Diseases Institute, University of Antwerp, Antwerp
- Nos-30 Nosocomial transmission of measles in Plovdiv, Bulgaria, 2017**
A. Kevorkyan¹, R. Komitova², O. Boykinova², M. Atanasova³, Y. Stoilova¹, V. Rangelova¹, M. Troyancheva⁴, M. Bachurova⁴
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²Department of Infectious Diseases, Parasitology and Tropical Medicine, Medical University of Plovdiv, Plovdiv; ³Department of Microbiology and Immunology, Medical University of Plovdiv, Plovdiv; ⁴Regional Health Inspectorate, Plovdiv
- Nos-31 Antimicrobial efficacy of *Trigonella foenicum-graecum* L. against the causative agents of some important nosocomial pathogens**
N. Duran¹, A. Emrah¹, S. Çolak¹, S. Bayraktar¹, D. Kaya²
¹Microbiology& Clinical Microbiology Department, Medical Faculty, Mustafa Kemal University, Hatay; ²Department of Field Crops, Agriculture Faculty, Mustafa Kemal University, Hatay, Turkey
- Nos-32 First report of an oxa-58-producing *Acinetobacter nosocomialis* clinical isolate in the Balkan states**
Strateva T.¹, I. Sirakov¹, E. Savov², I. Mitov¹
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²Laboratory of Microbiology, Department of Military Epidemiology and Hygiene, Military Medical Academy, Sofia

Zoonoses

- Zoo-4 Prevalence of brucellosis with serologic methods in brucellosis suspected cases**
R. Kesli, H. Tokay, O. Turkyilmaz
 Afyon Kocatepe University, School of Medicine, Department of Medical Microbiology, Afyonkarahisar, Turkey
- Zoo-5 *Bartonella taylorii* existence inapodemus mice in Thrace region of Turkey**
B. Polat¹, B. Çelebi², A. Karataş³, S. Irmak⁴, F. Çolak⁵, F. Matur⁶, M. Sözen⁵, M. A. Öktem¹
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³Department of Biology, Faculty of Arts and Sciences, Ömer Halisdemir University, Niğde;
⁴Science and Technology Application and Research Center, Balıkesir University, Balıkesir;
⁵Department of Biology, Faculty of Arts and Sciences, Bülent Ecevit University, Zonguldak;
⁶Department of Biology, Faculty of Science, Dokuz Eylül University, Izmir
- Zoo-6 Comparison of different DNA extraction methods for detection of brucellosis in blood culture bottles**
T. Dal, H. Zeybek, Z. Açıkgöz, R. Durmaz
 Ankara Yildirim Beyazıt University, School of Medicine, Ankara
- Zoo-7 New approaches for fast detection of *Yersinia enterocolitica* and surveillance in slaughter pigs**
M. Zaharieva¹, M. Angelovksa¹, L.Dimitrova¹, I. Tsvetkova¹, V. Teneva¹, E. van Collie², M. Heyndricks², H. Najdenski¹
¹Department of Infectious Microbiology, The Stephan Angeloff Institute of Microbiology, Bulgarian Academy of Sciences, Sofia; ²Unit “Food Safety”, Institute for Agriculture and Fisheries Research (ILVO), Melle, Belgium

- Zoo-8** **Comparative study of *Brucella***
K. Eleftheriadis, A. Kavvada, M. Kyriazidi, M. Chatzidimitriou, St. Mitka
 "Papageorgiu" General Hospital of Thessaloniki, Thessaloniki
- Zoo-9** **Development of ELISAs and evaluation of *Brucella* capt and two rapid serological tests for the detection of human brucellosis**
O. Genç¹, Y. Çetinkol², Y. Büyüktanır¹, N. Yurdusev³
¹Ondokuz Mayıs University, Faculty of Veterinary Medicine, Department of Microbiology, Samsun;
²Ordu University, Faculty of Medicine, Department of Clinical Microbiology, Ordu; ³BioOptimum Health and Biotech Co., Çankaya/Ankara
- Zoo-10** **Five cases of *Pasteurella multocida* infection**
C. Eryıldız¹, N. Sakru¹, S. Gurcan¹, S. Unlu²
¹Department of Medical Microbiology, Faculty of Medicine, Trakya University, Edirne; ²Clinic of Medical Microbiology, Edirne State Hospital, Edirne

Veterinary medicine

- VM-4** **Retrospective evolution of dermatophytes isolated from different animal species**
N. Karacan Sever¹, T. Yildirim, M. Omeroviç¹, M. Öno¹, A. Zahiri¹, B. Doğan¹, M. İzgür¹
¹University of Ankara, Faculty of Veterinary Medicine, Department of Microbiology, Ankara
- VM-5** **Bacterial kidney disease (BKD)**
V. Chikova, P.Orozova, E. Mileva, S. Kirova
 National Diagnostic & Research Veterinary Medical Institute „Prof. Dr G. Pavlov“, Sofia
- VM-6** **Control of infectious diseases and risk assessment in fish farms**
S. Kirova
 National Diagnostic and Research Veterinary Institute, Sofia
- VM-7** **Serological investigation of *Ehrlichia canis*, *Borrelia burgdorferi*, *Anaplasma phagocytophilum* and *Dirofilaria immitis* in dogs with epileptic seizures**
A. Bayrakal, L. Koenhems, M. E. OR
 Istanbul University, Faculty of Veterinary Medicine, Internal Medicine Department, Istanbul

Virology

- V-12** **Investigation of rota and adenoviruses by two different serological methods**
M. Bayraktar, O. İlhan
 Harran University, Faculty of Medicine, Department of Medical Microbiology, Sanliurfa, Turkey

- V-13 Descriptive epidemiology of HIV, hepatitis B and hepatitis C infection among psychiatric patients in Greece: a five-year survey**
I. Daniil¹, E. Laskos¹, M. Balachouti², V. Voulgaris³, V. Mamakou³, A. Dimitriadis⁴, V. Kapsimali⁵, G. Vrioni⁵, M. Dimoutsos¹, A. Tsakris⁵
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- V-14 Epstein-Barr virus seropositivity rates in infectious mononucleosis suspected patients**
R. Kesli , H. Tokay, O. Turkyilmaz
 Afyon Kocatepe University, School of Medicine, Department of Medical Microbiology, Afyonkarahisar, Turkey
- V-15 Clinical–laboratory performance of hepatitis in leptospirosis**
A. Ndreu, E. Meta, E. Kolovani, P. Pipero, N. Como, D.H. Kraja
 Intensive Care Unit – Infectious Diseases service UHC “ Mother Theresa”, Tirana
- V-16 Viruses, causing chlorotic symptoms on aromatic plant *Nepeta racemose***
B. Dikova
 N. Poushkarov Institute for Soil Science, Agrotechnologies and Plant Protection, Sofia/Kostinbrod
- V-17 Epidemiological and clinical data of cases with co-infection of HIV/AIDS and viral hepatitis in Albania adults**
E. Meta¹, N. Como¹, P. Pipero¹, Dh. Kraja¹, A. Ndreu¹, A.Koraqi², D. Lacej², E. Shehu³, A. Harxhi¹
¹Infectious Diseases Service; ²Microbiological Laboratory; ³Dermatology Clinic UHC Mother Theresa, Tirana
- V-18 Molecular detection of human bocavirus in stool samples from patients with acute gastroenteritis**
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- V-19 Management of HCV/HIV co-infection**
E. Meta¹, N. Como¹, P. Pipero¹, D.H. Kraja¹, A Harxhi¹
 Infectious Disease Clinic UHC ‘Mother Theresa’ Tirana
- V-20 A case of aseptic meningitis caused by enterovirus in newborn diagnosed with rapid molecular technique**
K. Kontopoulou¹, P. Kampouridou¹, I. Kapsalis¹, A. Fragoulidi², F. Giolas², I. Sgouropoulos¹, S. Zotou¹, A. Stamou¹, E. Protonotariou³, L. Skoura³, S. Karyda²
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- V-21** **Virological responses evaluated during antiviral therapy in chronically infected HBV and HDV patients**
D. Tsaneva-Damyanova¹, L. Ivanova^{1,2}, I. Ivanova^{3,4}, Zh. Stoykova^{1,2}, Ts. Kostadinova⁵, T. Chervenkov^{6,7}
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- V-22** **Hepatitis C virus genotypes, gender and age relationship in the region of 'Istanbul northern anatolian association of public hospitals'**
Ü. Zeytinli, Ş. Daldaban Dinçer, E. Özyurt, Ö. Yanılmaz, S. Aksaray, K. Özdil
 Istanbul Northern Anatolian Association of Public Hospitals Central Laboratory, Istanbul
- V-23** **Systemic acquired resistance against tomato spotted wilt virus in peppers induced by bion**
N. Petrov^{1,2}
¹Institute of soil science, agrotechnologies and plant protection "N. Pushkarov", Sofia; ²New Bulgarian University, Sofia
- V-24** **Evaluation of specific antibodies to parvovirus B19 in patients with suspected infection**
A. Georgaki, C. Louka, V. Papadouli, K. Avgoulea, N. Rekleiti, V. Mamali, O. Zarkotou, K. Themeli-Digalaki
 Microbiology Depts, "Tzaneio" General Hospital of Piraeus
- V-25** **Hantavirus hemorrhagic fever with renal syndrome – report on diagnostic protocol**
D. Cvetković, V. Branković Andreevska, S. Sejfulai, M. Todorovska, A. Momirovska
 PZU Synlab, Skopje
- V-26** **Investigation of rotavirus and enteric adenovirus frequency among children with acute gastroenteritis**
Z. Aşçi Toraman¹, C. Sel¹, H. Handan Akbulut¹, A. Yaşar Yücel¹, R. Aslan²
¹ Firat University, Medical Faculty, Medical Microbiology, Elazığ; ² Elazığ Education and Research Hospital, Elazığ, Turkey
- V-27** **Combined therapeutic potentials of oseltamivir, ellagic acid and isoprinosine in influenza-infected mice**
L. Simeonova¹, E. Pavlova², G. Gegova¹, K. Todorova¹
¹Department of Virology, The Stephan Angeloff Institute of Microbiology, Bulgarian Academy of Sciences, Sofia; ²Biophysics & Medical Physics, Sofia University "St. Kliment Ohridski", Sofia
- V-28** **Bulgarian participation in european network on myalgic encephalomyelitis/chronic fatigue syndrome: human herpesvirus infection associated biomarkers of ME/CFS - optimization of PCR-based detection**
E. Shikova, A. Kumanova
 National Center of Infectious and Parasitic Diseases, Sofia

- V-29 New antiviral treatment strategy against coxsackievirus B3 infections**
A. Stoyanova¹, L. Mukova¹, I. Nikolova¹, S. Philipov², G. Pürstinger³, A.S. Galabov¹
¹The Stephan Angeloff Institute of Microbiology, Bulgarian Academy of Sciences, Sofia; ²Institute of Organic Chemistry with Centre of Phytochemistry, Bulgarian Academy of Sciences, Sofia; ³Institute of Pharmacy, University of Innsbruck, Innsbruck
- V-30 Consecutive alternating administration of double combinations against coxsackievirus B1 infection in mice**
A. Stoyanova¹, S. Philipov², I. Nikolova¹, G. Pürstinger³, A.S. Galabov¹
¹The Stephan Angeloff Institute of Microbiology, Bulgarian Academy of Sciences, Sofia; ²Institute of Organic Chemistry with Centre of Phytochemistry Bulgarian Academy of Sciences, Sofia; ³Institute of Pharmacy, University of Innsbruck, Innsbruck
- V-31 Activity of double combinations against cardiotropic strain of coxsackievirus B3**
A. Stoyanova¹, N. Nikolova-Velislavova¹, S. Philipov², G. Pürstinger³, A.S. Galabov¹
¹The Stephan Angeloff Institute of Microbiology, Bulgarian Academy of Sciences, Sofia; ²Institute of Organic Chemistry with Centre of Phytochemistry, Bulgarian Academy of Sciences, Sofia; ³Institute of Pharmacy, University of Innsbruck, Innsbruck
- V-32 The prevalence of rotavirus and adenovirus infections in immunocompetent patients with acute gastroenteritis in Kocaeli, Western Turkey**
E.Yazıcı Ozcelik¹, G. Sonmez Tamer²
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- V-33 First case of high pathogen avian influenza in Montenegro**
B. Adzić¹, G. Husag², D. Vidanović³
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- V-34 Evaluation of Epstein Barr virus serological profiles according to age**
U. Arslan, F. Ates, N. Ciftci, M. Sezen, H. Turk Dagi
 Department of Microbiology, Faculty of Medicine, Selcuk University, Konya
- V-35 Unmasking tuberculosis-immune reconstitution inflammatory syndrome in HIV patient**
E. Muco¹, J. Mehmeti², G. Kasmi³, S. Tafaj⁴, D. Lecaj³, E Meta¹, P. Pipero¹, A. Harxhi¹
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- V-36 Frequency of rotavirus and adenovirus gastroenteritis among patients in province of Afyonkarahisar, Turkey**
R. Kesli, O Turkyilmaz, H. Tokay
 Afyon Kocatepe University, School of Medicine, Department of Medical Microbiology, Afyon, Turkey

- V-37 Socioeconomic indicators can be used to estimate hepatitis A seroprevalence rates for countries with no data in North Africa and the Middle East region**
M. Koroglu¹, K. H. Jacobsen², T. Demiray³, A. Ozbek¹, U. Erkorkmaz⁴, M. Altindis¹
¹Department of Medical Microbiology, School of Medicine, Sakarya University, Sakarya;
²Department of Global & Community Health, George Mason University, Fairfax, Virginia; ³Clinical Microbiology Laboratory, Sakarya University Education and Research Hospital, Sakarya
⁴Department of Biostatistics, School of Medicine, Sakarya University, Sakarya, Turkey
- V-38 The prevalence of rotavirus and adenovirus infections in immunocompetent patients with acute gastroenteritis in Kocaeli, Western Turkey**
E. Yazıcı Özcelik¹, G. Sonmez Tamer²
¹Kocaeli University Institute of Health Sciences Medical Microbiology Dept., Kocaeli;
²Department of Medical Microbiology Faculty of Medicine, Kocaeli University, Kocaeli, Turkey
- V-39 Antiviral activity of ellagitannins against animal herpes virus strains**
N. Vilhelmova-Ilieva¹, I. Sirakov³, R. Jacquet², S. Quideau², A. S. Galabov¹
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- V-40 HIV related laboratory and clinical manifestations**
L. Ivanova^{1,2}, Zh. Stoykova^{1,2}, Ts. Kostadinova³, D. Tsaneva-Damyanova¹
¹Department of Microbiology and Virology-Medical University, Varna; ²Laboratory of Clinical Virology-University hospital "St. Marina", Varna; ³Education and Research Sectors of Medical Laboratory Assistant, Medical College, Medical University, Varna
- V-41 Comparisons of three different rotavirus antigen tests for screening rotavirus in stool samples**
S. Kırdar¹, N. Erol², F. Kahyaoglu³, V. Yazıcı⁴, M. Altindis⁵
¹Adnan Menderes University, Medicine Faculty, Department of Medical Microbiology, Aydın; ²Adnan Menderes University, Veterinary Faculty, Department of Virology, Aydın; ³Vocational School of Health Services, University of Avrasya, Trabzon; ⁴Medical Microbiology Laboratory, Kocaeli Derince Training and Research Hospital, Izmit; ⁵Sakarya University, Medicine Faculty, Department of Medical Microbiology, Sakarya, Turkey
- V-42 Mutations Induced by consecutive alternating administration of anti-enteroviral inhibitors In Coxsackievirus B1**
P. Grozdanov¹, I. Nikolova¹, A. Stoyanova¹, P. Polston², M. L. Joffret², F. Delpeyroux², A. S. Galabov¹
¹The Stephan Angeloff Institute of Microbiology, Bulgarian Academy of Sciences, Sofia;
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Environmental Microbiology

- EnvM-9 Planted root *Bacillus* sp. MP6a isolation determination of bioresistant properties in lead**
Ü.Z.Üreyen¹, E. Uzunalioglu², A.Ş Karaoğlu²
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- EnvM-10** **Microbial diversity of four caves in Turkey**
U.Z. Ureyen¹, A. Biber^{2,3}, B. Altay³, İ. Tekkilic^{3,4}, K. Tan³, E. F. Tufekci⁵, U. Uzun⁶, N. Saglam Ertunga⁶, A.O. Kilic⁵
¹Department of Medical Microbiology, Faculty of Medicine, Recep Tayyip Erdoğan University; ²Department of Biotechnology, Graduate School of Natural and Applied Sciences, Middle East Technical University, Ankara; ³Cave Research Association, Ankara; ⁴Department of Art History, Faculty of Letter, Hacettepe University, Ankara; ⁵Department of Medical Microbiology, Faculty of Medicine, Karadeniz Technical University, Trabzon; ⁶Department of Chemistry, Faculty of Sciences, Karadeniz Technical University, Trabzon
- EnvM-11** **Trends of bathing water quality in Velipoja, Shengjin, Durres, Gjiri i Lalzit, Kavaja, Vlora, Dhërmi, Himarë, Borsh and Saranda coastals during 2012-2016**
O. Petri¹, O. Bici¹, V Bara¹, B. Agolli¹, A. Kokali¹, B. Arapi², A. Luzati¹
¹Department Health & Environment Institute of Public Health, Tirana; ²Directory of Public Health, Tirana
- EnvM-12** **Determination of quorum sensing signal molecules in chromium resistant bacteria**
K. Erkan Turkmen¹, E.D. Ulusman¹, D. Erdonmez²
¹Hacettepe University, Department of Biology, Biotechnology, Ankara; ²Aksaray University, Department of Biology, Aksaray, Turkey
- EnvM-13** **Isolation of bioflocculant producing bacteria from waste water and soil**
K. Erkan Türkmen, Ö. Erdem, N. Cihangir
Hacettepe University, Department of Biology, Biotechnology Section, Ankara
- EnvM-14** **Determination of the level and source of microbial pollution in the Sava river basin**
J. Kostic^{1,2}, S. Kolarevic¹, M. Kračun-Kolarevic³, Z. Gačić², M. Aborgiba¹, A. Farnleitner⁴, G. Reischer⁴, R. Linke⁴, M. Paunovic³, B. Vuković-Gačić¹
¹University of Belgrade, Faculty of Biology, Chair of Microbiology, Center for Genotoxicology and Ecogenotoxicology, Belgrade; ²University of Belgrade, Institute for Multidisciplinary Research, Belgrade; ³University of Belgrade, Institute for Biological Research "Siniša Stanković", Belgrade; ⁴Vienna University of Technology, Institute for Chemical Engineering, Research Group Environmental Microbiology and Molecular Ecology, The Interuniversity Cooperation Centre Water & Health, Vienna
- EnvM-15** **Culturable bacterial diversity in Kadıını cave, Alanya, Turkey**
N. Doğruöz Güngör¹, B. Çandiroğlu², G. Altuğ³
¹Istanbul University, Faculty of Science, Department of Biology, İstanbul; ²Istanbul University, Institute of Sciences, İstanbul; ³Istanbul University, Faculty of Aquatic Science, Department of Marine Biology, İstanbul
- EnvM-16** **Phylogenetic diversity of archeal communities in Dupnisa cave soil contaminated with bat guano**
N. Doğruöz Güngör
Istanbul University, Faculty of Science, Department of Biology, İstanbul
- EnvM-17** **Changes in microbiological properties of technogenic soils (technosols) due to hydrophobicity**
K. Nedyalkova, G. Petkova, I. Atanassova
"N. Poushkarov" Institute of Soil Science, Agrotechnologies and Plant Protection, Sofia
- EnvM-18** **First report of *Xanthomonas euvesicatoria* causing bacterial spot disease on tomato in Bulgaria**
Y. Kizheva¹, T. Vancheva¹, Y. Slaveykova¹, P. Hristova¹, P. Moncheva¹, N. Bogatzevska²
¹Sofia University "St. Kliment Ohridski", Sofia; ²Institute of Soil Science, Agrotechnologies and Plant Protection 'Nikola Pushkarov', Sofia

- EnvM-19** **Conformational changes and methylation profile in DNA of freshwater bacteria acclimated to toxic heavy metal environments**
R. Gurbanov¹, S. Mingu², S. Tuncer², C. Aktas², F. Severcan^{2,3}, A. G. Gozen²
¹Bilecik S.E. University, 11230, Bilecik; ²Middle East Technical University, Ankara; ³Altinbas University, Istanbul
- EnvM-20** **Application of SOS/UMUC assay in Eco/genotoxicology**
J. Jovanović¹, S. Kolarević¹, A. Milošković¹, N. Radojković², V. Simić², B. Dojčinović³, M. Kračun-Kolarević⁴, M. Paunović⁴, J. Kostić⁵, K. Sunjog⁵, J. Timilijnić¹, J. Djordjević¹, Z. Cačić⁵, B. Vuković-Gačić¹
¹University of Belgrade, Faculty of Biology, Chair of Microbiology, Center for Genotoxicology and Ecogenotoxicology, Belgrade; ²University of Kragujevac, Faculty of Science, Institute of Biology and Ecology, Kragujevac; ³University of Belgrade, Institute of Chemistry, Technology and Metallurgy; ⁴University of Belgrade, Institute for Biological Research "SinisaStankovic", Belgrade; ⁵University of Belgrade, Institute for Multidisciplinary Research, Belgrade
- EnvM-21** **Diversity of bacteria from four plum cultivars (*Prunus domestica* L.) IN untreated orchard in Serbia**
T. Janakiev, I. Dimkić, Đ. Fira, S. Stanković, T. Berić
Faculty of Biology, University of Belgrade, Belgrade
- EnvM-22** **Isolation, identification and characterization of *Bacillus* strains from different types of Bulgarian soils applicable in organic farming**
Ts. Licheva, M. Badalova, R. Tropcheva, D. Nikolova, V. Savov
Sofia University St. Kliment Ohridski, Faculty of Biology, Sofia
- EnvM-23** **Antagonistic potential of *Bacillus spp.* against *Trichoderma pleurotum* and *Trichoderma pleuroticola*, pathogens of oyster mushroom**
O. Stanojević¹, T. Berić¹, S. Milijašević-Marčić², E. Rekanović², K. Jojić¹, S. Stanković¹, I. Potočnik²
¹Faculty of Biology, University of Belgrade, Belgrade; ²Institute of Pesticides and Environmental Protection, Belgrade

Antibiotic Resistance

- Ant-Res-17** **Comparisons of MRSA screen test with cefoxitin disk diffusion test to determine methicillin-resistant *S. aureus***
O. Petri, A. Daka, S. Mucaj, V. Isufaj, L. Marku, I. Marku, B. Hyseni
Central Laboratory of American Hospital, Tirana
- Ant-Res-18** **Rapid detection of carpapenemase producing bacteria**
O. Aydogan, F. Koksall Cakirlar
Istanbul University, Cerrahpasa Faculty of Medicine, Istanbul

- Ant-Res-19** ***In vitro* activity of tigecycline and comparators against multidrug resistant *Klebsiella pneumoniae* and *Acinetobacter baumannii* clinical isolates**
E. Protonotariou¹, O. Vasilaki¹, G. Kagkalou¹, P. Digonis¹, M. Kachrimanidou², D. Papadopoulou¹, M. Velenis¹, M. Chatzi¹, L. Toptsi¹, G. Sgouropoulos¹, S. Pournaras³, L. Skoura¹
¹Department of Microbiology-AHEPA University Hospital-Aristotle University of Thessaloniki, Thessaloniki; ² Department of Microbiology-Medical School, Aristotle University of Thessaloniki, Thessaloniki; ³ Department of Microbiology, Medical School, National and Kapodistrian University of Athens, Athens
- Ant-Res-20** **Conjugal transfer of antibiotic resistance in *Escherichia coli* strains involving class 1 and class 2 integrons**
A. Reis¹, M. Cora¹, O. B. Özgümüş², A. O. Kılıç¹
¹Department of Medical Microbiology, Karadeniz Technical University School of Medicine, Trabzon; ²Department of Medical Microbiology, Recep Tayyip Erdoğan University School of Medicine, Rize, Turkey
- Ant-Res-21** **Phenotypic and molecular evaluation in aminoglycoside resistance**
I. A. Yuceel¹, B. Aksu², T. Celik², I. Cavusoglu², M. U. Hasdemir²
¹Marmara University Medical School, Istanbul; ²Marmara University Medical School, Microbiology Department, Istanbul
- Ant-Res-22** ***Escherichia coli* the primary cause of urinary tract infections and antibiotic resistance during the year 2010 and 2016**
F. Ismaili Januzi¹, K. Hyseni²
¹Laboratory of Microbiology, Diagnostic Center "Echo med", Prishtine; ²National Institution of Public Health, Gjilan
- Ant-Res-23** **Pneumonia caused by *K. pneumoniae* resistant to carbapenems strains in ICU colonized patients during a four-year period**
K. Kontopoulou¹, S. Zotou¹, I. Kapsalis¹, I. Sgouropoulos¹, A. Stamou¹, E. Antoniadou², P. Tasioudis², I. Georgitzikis¹, S. Metallidis³, N. Malisiovas⁴, A. Vatopoulos⁵
¹Laboratory of Biopathology of General Hospital of Thessaloniki "G. Gennimatas"; ²Intensive Care Unit of General Hospital of Thessaloniki "G. Gennimatas"; ³A' Pathological clinic of A.U.Th., "Ahepa"; ⁴A.U.Th.'s Microbiology Laboratory; ⁵Central Laboratory, Public Health School, Thessaloniki
- Ant-Res-24** **Study of *Proteus mirabilis* strains resistant to carbapenems during the years 2011 – 2016**
K. Kontopoulou, S. Zotou, I. Kapsalis, C. Belai, I. Sgouropoulos, A. Stamou, V. Adamopoulos, S. Vasileiou, I. Mavrovouniotis, I. Georgitzikis
 Biopathology Laboratory, General Hospital. "G. Gennimatas", Thessaloniki
- Ant-Res-25** **Urinary tract infections by *K. pneumoniae* strains resistant to carbapenems during a two-year period**
K. Kontopoulou, I. Kapsalis, S. Zotou, I. Sgouropoulos, A. Stamou, V. Adamopoulos, C. Belai, S. Vasileiou, I. Mavrovouniotis, A. Ifantidou, I. Georgitzikis.
 Biopathology Laboratory General. Hospital. "G. Gennimatas", Thessaloniki
- Ant-Res-26** **Infections of *Acinetobacter baumannii* complex strains resistant to carbapenems isolated in orthopedic patients**
K. Kontopoulou, I. Kapsalis, S. Zotou, I. Sgouropoulos, A. Stamou, V. Adamopoulos, C. Belai, S. Vasileiou, I. Mavrovouniotis, A. Ifantidou, I. Georgitzikis
 Biopathology Laboratory, General Hospital "G. Gennimatas", Thessaloniki

- Ant-Res-27** **Ciprofloxacin resistance mechanisms of clinical *Pseudomonas aeruginosa* isolates**
N. Uzunbayir-Akel¹, Y. Tekintas², F.F. Yilmaz³, I. Ozturk³, S.S. Aydemir⁴, F.F. Cilli⁴, M. Hosgor-Limoncu³
¹Ege University; Faculty of Medicine; Department of General Surgery, Izmir; ²Izmir Katip Celebi University, Faculty of Pharmacy, Department of Pharmaceutical Microbiology, Izmir; ³Ege University; Faculty of Pharmacy; Department of Pharmaceutical Microbiology, Izmir; ⁴Ege University; Faculty of Medicine; Department of Medical Microbiology, Izmir
- Ant-Res-28** **Evaluation of a new carbapenemase confirmation kit's performance**
D. Öcal¹, E. Çalışkan, A. Altunay, O. A. Gürbüz, Z. Dansuk, H. Saltaş, G. Erdem, A. Tekeli²
¹University of Health Sciences, Dışkapı Yıldırım Beyazıt Training and Research Hospital, Department of Medical Microbiology, Ankara; ²Ankara University School of Medicine, Department of Medical Microbiology, Ankara
- Ant-Res-29** **Prevalence of blaOXA b-lactamases in carbapenem**
T. G. Konstantinidis, E. Chasapi, A. Grapsa, I. Alexandropoulou, T. Parasidis, C. Tsigalou, M. Panopoulou
Laboratory of Microbiology, School of Medicine, Democritus University of Thrace, Alexandroupolis
- Ant-Res-30** **Evaluation of two-year blood culture profiles in a tertiary hospital in Turkey: microorganisms and their antimicrobial susceptibility patterns**
Z. C. Acikgoz¹, A. Gozalan², B. Ozdem², F. Kirca², N. Celikbilek², S. Aydogan², N. Kuru², T. Muderris, R. Durmaz¹
¹Yildirim Beyazıt University, Faculty of Medicine, Department of Medical Microbiology Bilkent, Ankara; ²Atatürk Research and Education Hospital, Department of Medical Microbiology Bilkent, Ankara
- Ant-Res-31** **Antimicrobial resistant bacterial respiratory tract infections**
V. Kotevska, G. Mirchevska, A. Kuzmanovska
Institute of Microbiology and Parasitology, Medical Faculty, Skopje
- Ant-Res-32** **Beta-lactamase production in *Pseudomonas aeruginosa* strains isolated from clinical specimens to investigate the phenotypic methods**
Z. A. Toraman¹, A. Pirincci²
¹Firat University, Medical Faculty, Medical Microbiology, Elazığ; ²Batman State Hospital, Batman, Turkey
- Ant-Res-33** **Investigation of antibiotic resistance genes in *Salmonella* isolates**
E. Ö. Arslan-Aydoğdu¹, I. Ada², A. Kimiran¹
¹Istanbul University, Faculty of Science, Department of Biology, Istanbul; ²Istanbul University, Institute of Science, Istanbul
- Ant-Res-34** **Investigation of oxacilinase resistance genes in clinical carbapenem resistant *Acinetobacter baumannii* isolates**
G. Uluçam Atay, G. Bayramoğlu, Tosun
Department of Medical Microbiology, Faculty of Medicine, Karadeniz Technical University, Trabzon

- Ant-Res-35 Antimicrobial resistance in fish pathogens isolated from cultured rainbow trout in Turkey**
R. E. Yardımcı, E. Turgay, S. Karataş
 Department of Fish Diseases, Faculty of Aquatic Sciences, Istanbul University, Istanbul
- Ant-Res-36 Antibiotic resistance and consumption in surgical ICU**
D. Panayotova, I. Kunev, E. Keuleyan, D. Vezeva, S. Tete
 Medical Institute, Ministry of the Interior, Sofia
- Ant-Res-37 Screening of antibiotic resistance genes in gram-negative bacteria isolated from caves**
G. A. Uluçam¹, M. Cora¹, I. Durukan¹, N. Sağlam Ertunga², A. O. Kılıç¹
¹Department of Medical Microbiology, Karadeniz Technical University School of Medicine, Trabzon; ²Department of Chemistry, Karadeniz Technical University Faculty of Science, Trabzon
- Ant-Res-38 Investigation of antibiotic susceptibility in anaerobic bacteria isolated from patients with periodontitis**
F. Tunçkanat¹, O. Tuncer², B. Sancak¹, B. Altun¹, E. Dursun³, F. Akdoğan Kittana¹
¹Hacettepe University, Faculty of Medicine, Department of Medical Microbiology, Ankara; ²Yozgat City Hospital, Yozgat; ³Hacettepe University, Faculty of Dentistry, Department of Periodontology, Ankara
- Ant-Res-39 Antistaphylococcal activity of chitosan based vancomycin containing hydrogel formulations**
K. Ozguler¹, M. M. Guncu¹, A. Aydin², B. Aksu¹, A. D. Sezer²
¹Marmara University, Medical School, Microbiology Dept. Maltepe, Istanbul; ²Marmara University, Faculty of Pharmacy, Pharmaceutical Biotechnology Dept. Uskudar, Istanbul
- Ant-Res-40 Antimicrobial susceptibility patterns of the most important respiratory pathogens**
G. Popova¹, T. Ilievska¹, K. Blagoevska²
¹Institute for respiratory diseases in children, Skopje; ²Faculty of veterinary medicine, Food Institute, University Ss Cyril and Methodius, Skopje
- Ant-Res-41 Mechanisms of beta-lactam resistance among third-generation cephalosporin resistant isolates from family *Enterobacteriaceae* different from *Escherichia coli* and *Klebsiella pneumoniae* in Bulgaria**
R. Markovska¹, T. Stoeva², P. Stankova¹, L. Boyanova¹, E. Keuleyan³, M. Sredkova⁴, M. Murjeva⁵, G. Lazarova⁶, D. Ivanova⁷, D. Dimitrova², K. Mihova⁸, R. Kaneva⁸, I. Mitov¹
¹Medical University of Sofia, Department of Medical Microbiology, Sofia; ²Medical University of Varna, Department of Microbiology and Virology; University Multiprofile Hospital for active treatment (UMHAT) "Sveta Marina", Varna; ³Medical Institute, Ministry of the Interior, Sofia; ⁴Medical University of Pleven, Department of Microbiology; UMHAT "Georgi Stranski", Pleven; ⁵Medical University of Plovdiv, Department of Microbiology, UMHAT "St George" Plovdiv; ⁶UMHAT "Prof. d-r St Kirkovich" Stara Zagora, Thracian University, Stara Zagora; ⁷Second Multiprofile Hospital for active treatment, Sofia; ⁸Molecular Medicine Center, Medical University of Sofia, Sofia
- Ant-Res-42 Determination of vancomycin resistance genotypes of *Enterococcus faecalis* and *Enterococcus faecium* isolated in Turkey**
I. Kutluk¹, M. Kurtulus-Ulkuer¹, K. Caglar², B. Kacmaz³, D. Gerceker⁴
¹Gazi University Faculty of Pharmacy, Dept of Pharmaceutical Microbiology, Ankara; ²Gazi University Faculty of Medicine, Dept of Medical Microbiology, Ankara; ³Kirikkale University Faculty of Medicine, Dept of Infectious Diseases, Kirikkale; ⁴Ankara University Faculty of Medicine, Dept of Medical Microbiology, Ankara

- Ant-Res-43 Antibiotic susceptibility of colistin resistant *Klebsiella pneumoniae* strains**
B. A. Borsa^{1,2}, A. Camporeale³, Z. Gungordu Dalar^{2,4}, C. Giske³, G. Aygun²
¹Yeditepe University School of Medicine, Department of Medical Microbiology, Istanbul; ²Istanbul University Cerrahpasa Medical Faculty, Department of Medical Microbiology, Istanbul; ³Karolinska Institute and Karolinska University Hospital, Division of Clinical Microbiology, Department of Laboratory Medicine, Stockholm; ⁴Altinbas University School of Medicine, Department of Medical Microbiology, Istanbul
- Ant-Res-44 Prevalence of methicillin-resistant *Staphylococcus aureus* (MRSA) nasal carriage among healthy students of medical school in Istanbul, Turkey**
M. M. Torun, S. Berk, U. Arslan, B. Yokuş, A. Erden, B. Cayit, B. B. Onlen, M. Mestanoglu, F. Y. Saglam, O. C. Aktepe
Bahçeşehir University, School of Medicine, Department of Medical Microbiology, Bahçeşehir, Turkey
- Ant-Res-45 Investigation of QNR genes in *Stenotrophomonas maltophilia* isolates**
Y. Tanriverdi Cayci, I. Biyik, K. Bilgin, A. Birinci
Ondokuz Mayıs University, Medical School, Department of Medical Microbiology, Samsun
- Ant-Res-46 *Staphylococcus aureus* screening: surveillance data of 5 years**
A. I. Tosun¹, Ö. Güven¹, C. Sever²
¹Department of Medical Microbiology, IstanbulMedipolUniversity, Istanbul; ²Department of Internal Medicine, Istanbul Medipol University, Istanbul
- Ant-Res-47 Carbapenem resistance: surveillance data of 2013–2017**
Ö. Güven¹, A. I. Tosun¹, C. Sever²
¹Department of Medical Microbiology, Istanbul MedipolUniversity, Istanbul; ²Department of Internal Medicine, IstanbulMedipolUniversity, Istanbul
- Ant-Res-48 Antibiotic resistance rates of colistin resistant Gram-negative bacteria and a comparison of Etest and VITEK2 in evaluation of colistin resistance**
D. Bayırlı-Turan¹, D. Gümüş², F. Kalaycı-Yüksek², A. Gümüş³, K. Şerefhanoglu¹, M. Ang-Küçük²
¹Department of Clinical Microbiology and Infectious Diseases, Faculty of Medicine; ²Department of Medical Microbiology, Faculty of Medicine; ³Department of Molecular Biology and Genetics, Faculty of Arts & Sciences, Istanbul Yeni Yuzyil University, Istanbul
- Ant-Res-49 VRE screening: surveillance data of 5 years**
C. Sever¹, A. I. Tosun², Ö. Güven²
¹Department of Internal Medicine, IstanbulMedipolUniversity, Istanbul; ²Department of Medical Microbiology, Istanbul Medipol University, Istanbul
- Ant-Res-50 Activity against carbapenem resistant *Pseudomonas aeruginosa* of antimicrobial photodynamic therapy**
A. Akbıyık¹, H. Taşlı¹, N. Topaloğlu², V. Alptüzün³, S. Parlar³
¹Ege University, Faculty of Pharmacy, Department of Pharmaceutical Microbiology, Izmir; ²Izmir Katip Celebi University Faculty of Engineering and Architecture, Department of Biomedical Engineering, Izmir; ³Ege University Faculty of Pharmacy, Department of Pharmaceutical Chemistry, Izmir

- Ant-Res-51** **The effects of disinfectants and ciprofloxacin on expression of quorum sensing genes in *Pseudomonas aeruginosa***
N. Uzunbayir-Akel¹, Y. Tekintas², F. F. Yilmaz³, I. Ozturk², M. Okeer³, S. S. Aydemir⁴, F. F. Cilli⁴, M. Hosgor-Limoncu³
¹Ege University, Faculty of Medicine, Department of General Surgery, Izmir; ²Izmir Katip Celebi University, Faculty of Pharmacy, Department of Pharmaceutical Microbiology, Izmir; ³Ege University, Faculty of Pharmacy, Department of Pharmaceutical Microbiology, Izmir; ⁴Ege University, Faculty of Medicine, Department of Medical Microbiology, Izmir
- Ant-Res-52** **Antibiotic resistance rates of blood isolates submitted to national antimicrobial resistance surveillance system (NARSS) in 2015-2017 in a Turkish hospital**
O. A. Gurbuz, Z. Dansuk, D. Öcal, Ş. Z. Bayrak, N. Çöplü, G. Erdem
University of Health Sciences, Dışkapı Yıldırım Beyazıt Training and Research Hospital, Department of Medical Microbiology, Ankara
- Ant-Res-53** **T030 was the most common spa type among “non-typeable” methicillin-resistant *Staphylococcus aureus* isolates in Turkey**
S. Kirca¹, E. Oryasin², O. Aktepe³, U. Arslan⁴, G. Bayramoglu⁵, A. Y. Coban⁶, S. A. Coskuner⁷, H. Guducuoglu⁸, N. Karabiber⁹, S. Oncu¹⁰, M. Tatman Otkun¹¹, N. Ozkutuk¹², M. Ozyurt¹³, A. G. Sener¹⁴, B. Bozdogan²
¹Giresun University, Faculty of Health Science, Giresun; ²Adnan Menderes University, REDPROM Research Center, Aydin; ³Afyon Kocatepe University, Faculty of Medicine, Afyon; ⁴Selcuk University, Faculty of Medicine, Konya; ⁵Karadeniz Technical University, Faculty of Medicine, Trabzon; ⁶Ondokuz Mayıs University, Faculty of Medicine, Samsun; ⁷Bozyaka Training and Research Hospital, Infectious Diseases and Clinical Microbiology, Izmir; ⁸Yuzuncu Yil University, Faculty of Medicine, Van; ⁹Yüksek İhtisas Hospital, Microbiology, Ankara, Turkey; ¹⁰Adnan Menderes University, Infectious Diseases and Clinical Microbiology, Aydin; ¹¹Onsekiz Mart University, Faculty of Medicine, Canakkale; ¹²Celal Bayar University, Faculty of Medicine, Manisa; ¹³Gulhane Military Academy of Medicine, Medical Microbiology, Istanbul; ¹⁴Izmir Katip Celebi University, Microbiology, Izmir
- Ant-Res-54** **Awareness of antibiotic consumption and antibiotic resistance among University students in Turkish Republic of Northern Cyprus**
M. Ilktaç, B. Gur, C. Gulcan, G. Celik
Eastern Mediterranean University, Faculty of Pharmacy, Famagusta
- Ant-Res-55** **Nasal carriage of Methicillin Resistant *Staphylococcus aureus* among pharmacy students in a University of Turkish Republic of Northern Cyprus**
M. Ilktaç, P. Beeukaghazadeh, G. Celik
Eastern Mediterranean University, Faculty of Pharmacy, Famagusta
- Ant-Res-56** **Antibiotic resistance rates of blood isolates submitted to national antimicrobial resistance surveillance system (NARSS) between 2015-2017 in a Turkish hospital**
O. A. Gurbuz, Z. Dansuk, D. Öcal, Ş. Z. Bayrak, N. Çöplü, G. Erdem
University of Health Sciences, Dışkapı Yıldırım Beyazıt Training and Research Hospital, Department of Medical Microbiology, Ankara

New Achievements in Parasitology

- P-14** **Intestinal ascariasis - case report**
M. Misoski
PHI Center for Public Health, Ohrid
- P-15** **The investigation of intestinal parasites, faecal flora and VRE carriage in children studying in schools with different socio-economic levels in Istanbul, Turkey**
F. Koksak Cakirlar, S. Yildiz, O. Aydogan, S. Ozdemir, S. Akyol, Z. Taner, H. Tokman, N. Gonullu
Istanbul University, Cerrahpasa Faculty of Medicine, Istanbul
- P-16** **Preliminary study for comparison of commercial kits isolating *Blastocystis* sp. DNA in stool samples from patients**
F. N. Sarzhanov¹, Al. F. Dogruman¹
¹Department of Medical Microbiology, School of Medicine, Gazi University, Ankara
- P-17** **A case of oral myiasis with *Phormia regina* larvae**
T. Unalan¹, N. Koc², S. Cetik³, A. S. Nalbantoglu², Y. Akyon¹, S. Erguven¹
¹Hacettepe University, Faculty of Medicine, Department of Medical Microbiology, Ankara;
²Ankara University, Faculty of Veterinary Medicine, Department of Parasitology, Ankara;
³Hacettepe University, Faculty of Medicine, Department of Internal Medicine, Ankara
- P-18** **Diagnosis of *Leishmania* and determination of types on clinical samples by using high resolution melting analysis (HRMA) method**
E. Polat¹, S. Sirekbasan²
¹Department of Medical Microbiology, Cerrahpasa Medical Faculty, Istanbul University, Istanbul; ²Department of Biotherapy Research and Development Laboratory, Istanbul University, Istanbul
- P-19** **Investigation of possible intestinal infection agents in living in nursing home**
M. E. Limoncu¹, T. Gunduz¹, S. K. Arserim¹, I. C. Balcioglu²
¹Celal Bayar University, Vocational School of Health Services, Manisa; ²Celal Bayar University, Faculty of Medicine, Department of Parasitology, Manisa, Turkey

Probiotics and Prebiotics

- PP-8** **First evidence of the proteinaceous nature of the aggregation factor in *Bifidobacterium longum* 1/2**
Ts. Yungareva, Z. Urshev, M. Michaylova
LB Bulgaricum PLC, R&D Center, Sofia
- PP-9** **Isolation and identification of *Lactobacillus* strains from different fermented foods**
J. Samanje¹, O. B. Ozgumus², F. Aydin¹, A. O. Kilic¹
¹Department of Medical Microbiology, Faculty of Medicine, Karadeniz Technical University, Trabzon; ²Department of Medical Microbiology, Faculty of Medicine, Recep Tayyip Erdoğan University, Rize, Turkey
- PP-10** **Properties of three *Lactobacillus* strains isolated from infants feces**
S. Dogan
Gazi University, Life Science Application and Research Center, Ankara

- PP-11** **Evaluation of plant-derived lactic acid bacteria resistance against crude plant extracts**
T. Teneva-Angelova¹, K. Yoanidu¹, D. Beshkova^{1,2}
¹The Stephan Angeloff Institute of Microbiology, BAS, Sofia; ²University of Food Technologies, Department of Technology of Milk and Milk Products, Plovdiv
- PP-12** **Determination of EPS production of *Lactobacillus* sp. isolated from traditional cheeses**
S.Dogan
Gazi University, Life Science Application and Research Center, Ankara
- PP-13** ***In vitro* viability and transit tolerance of lactobacilli from katak and cheese**
V. Nemska¹, N. Georgieva¹, S. Danova²
¹University of Chemical Technology and Metallurgy, Sofia; ²The Stephan Angeloff Institute of Microbiology, Bulgarian Academy of Sciences, Sofia
- PP-14** **Fructooligosaccharides synthesized by levansucrase from *Leuconostoc mesenteroides* LM 17**
V. Bivolarski, T. Vasileva, A. Salim, I. Iliev
Plovdiv University "Paisii Hilendarski", Department of Biochemistry and Microbiology, Plovdiv
- PP-15** **Antimicrobial activity of *Lactobacillus plantarum* against pathogenic and food spoilage microorganisms: a review**
T. Dinev¹, G. Beev¹, M. Tzanova¹, S. Denev¹, D. Dermendzhieva², A. Stoyanova³
¹Department of Biochemistry, Microbiology and Physics, Faculty of Agriculture, Trakia University, Stara Zagora; ²Department of Applied Ecology and Animal Hygiene, Faculty of Agriculture, Trakia University, Stara Zagora; ³Department of Plant Production, Faculty of Agriculture, Trakia University, Stara Zagora
- PP-16** **Comparison of the expression of exopolysaccharide genes in *Streptococcus thermophilus* LBB.T54 grown in semi-defined media and milk**
M. Terzieva, Z. Urshev
LB Bulgaricum PLC, R&D Center, Sofia

November 18th 2017

Session Five A (Hall Kiev)

Viral Pathogens

Chair(s): Angel S. Galabov, Mehmet Ali Oktem, Dragoslava Radin

Plenary lecture

8:30-8:50 V-1 Distribution and genotype variability of HPV on female cervix uteri in Serbia
Alexandra Knežević
Institute of Microbiology and Immunology, Faculty of Medicine, University of Belgrade, Belgrade

Oral reports

8:50-9:00 V-2 Variation in the prevalence of Rotavirus genotypes during four years of surveillance from August 2012 to September 2016 in Turkey
R. Durmaz^{1,2}, Z. Bakkaloğlu¹, A. Karagöz¹, O. Unaldı¹, AT. Kalaycıoğlu^{1,3}, S. Savaş¹, G. Korukluoğlu¹, Türkiye Rotavirüs Sürveyans Ağı Çalışma Grubu
¹Public Health Agency of Turkey, Molecular Microbiology Reference Laboratory, Ankara; ²Yıldırım Beyazıt University, Faculty of Medicine, Department of Medical Microbiology, Ankara; ³Karadeniz Technical University, Faculty of Pharmacy, Trabzon

9:00-9:10 V-3 Hepatitis E virus infection in pigs at the time of slaughter
P. Raspor Lainšček¹, I. Toplak², A. Kirbiš¹
¹Institute for food safety, feed and environment, Veterinary faculty, University of Ljubljana, Ljubljana; ²Institute for microbiology and parasitology, Veterinary Faculty, University of Ljubljana, Ljubljana

9:10-9:20 V-4 Hepatitis C virus genotype distribution in turkish and syrian refugees in Hatay region
N. Duran¹, S. Çolak¹, S. Bayraktar¹, A. Y. Emrah¹, F. Çimen¹, M. Demir²
¹Microbiology & Clinical Microbiology Department, Medical Faculty, Mustafa Kemal University, Hatay; ²Department of Gastroenterology, Faculty of Medicine, Mustafa Kemal University, Hatay, Turkey

9.20-9.30 V-5 Effect of combination of oseltamivir and s-adenosyl-l-methionine (sam) on oxidative damages in lung caused by influenza virus infection in mice
A. Dimitrova¹, M. Mileva¹, D. Krastev², A. Alexandrova³, E. Tsvetanova³, A. Georgieva³, A.S. Galabov¹
¹The Stephan Angeloff Institute of Microbiology, Bulgarian Academy of Sciences, Sofia; ²Medical University of Sofia, Medical College "Jordanka Filaretova", Sofia; ³Institute of Neurobiology, Bulgarian Academy of Sciences, Sofia

- 9:30-9:40 V-6 Towards measles elimination: phylogenetic analysis of measles viruses (2011-2015) in Turkey**
A. T. Kalaycıoğlu^{1,2}, D. Güldemir¹, S. Yolbakan³, G. Korukluoğlu³, Y. Cosgun³, A. Coşkun³, R. Durmaz^{1,4}
¹Molecular Microbiology Research and Application Laboratory, Public Health Agency, Ankara; ²Faculty of Pharmacy, Karadeniz Technical University, Trabzon; ³Virology Reference Laboratory, Public Health Agency, Ankara; ⁴Faculty of Medicine, Department of Medical Microbiology, Yıldırım Beyazıt University, Ankara
- 9:40-9:50 V-7 Human papilloma virus infection in HIV positive patients**
E. Muco¹, J. Mehmeti², A. Harxhi¹, K. Shkurti¹, P. Pipero¹, Dh. Kraja¹
¹Infectious Diseases Service, University Hospital Center “Mother Tereza” Tirana; ²Infectious Diseases, Hospital of Saranda, Albania
- 9:50-10:00 V-8 Prevalence of human polyomaviruses KIPyV and MCPyV in respiratory tract specimens from Bulgarian patients**
E. Shikova¹, D. Emin¹, D. Alexandrova², M. Shindov³, A. Kumanova¹, U. Moens⁴
¹National Center of Infectious and Parasitic Diseases, Sofia; ²The National Specialized Hospital for Active Treatment in Haematological Diseases, Sofia; ³Specialized Hospital for Active Treatment in Oncology, Sofia; ⁴University of Troms, Faculty of Health Sciences, Troms
- 10:00-10:10 V-9 Virological responses evaluated during antiviral therapy in chronically infected HBV and HDV patients**
D. Tsaneva-Damyanova¹, L. Ivanova^{1,2}, I. Ivanova^{3,4}, Zh. Stoykova^{1,2}, Ts. Kostadinova⁵, T. Chervenkov^{6,7}
¹Department of Microbiology and Virology, Medical University, Varna; ²Laboratory of Clinical Virology, University Hospital “St.Marina”, Varna; ³ES Gastroenterology, Hepatology and Nutrition, Department of Internal Diseases, Medical University, Varna; ⁴Gastroenterology, Hepatology and Nutrition Department, University Hospital “St.Marina”, Varna; ⁵Education and Research Sectors of Medical Laboratory Assistant, Medical College, Medical University, Varna; ⁶Laboratory of Clinical Immunology, University Hospital “St.Marina”, Varna; ⁷Department of Paediatrics and Medical Genetics, Medical University, Varna
- 10:10-10:20 V-10 Genotypes of chronic hepatitis B patients in Aydin province of Turkey**
S. Kırdar¹, M. H. Yasa², M. Sayan^{3,4}, N. Aydın¹
¹Department of Medical Microbiology, School of Medicine, Adnan Menderes University, Aydın; ²Department of Gastroenterology, School of Medicine, Adnan Menderes University, Aydın; ³Clinical Laboratory, PCR Unit, Faculty of Medicine, University of Kocaeli, Kocaeli; ⁴Near East University, Research Center of Experimental Health Sciences, Nicosia
- 10:20-10:30 V-11 Distribution of hepatitis viral markers in hospitalised patients in Tirana university hospital “Mother Tereza”**
V. Durro, L. Fuga, N. Gjylameti, E. Nushi, I. Ikonomi, A. Koraqi
 Microbiology service, University Hospital “Mother Tereza”, Tirana

Coffee break 10:30 – 11:00

Environmental Microbiology

Chair(s): Solveig Tosi, Veneta Grudeva, Dzhoko Kungulovski

Plenary lecture

11:00-11:20 EnvM-1 How to face the extreme conditions: the secrets of antarctic mycobiota

Solveig Tosi

Laboratory of Mycology, Department of Earth and Environmental Sciences, University of Pavia, Pavia

Oral reports

11:20-11:30 EnvM-2 Antimicrobial activity of *Bacillus* spp. against bacterial pathogens of tomato

O. Stanojević¹, T. Berić¹, I. Potočnik², E. Rekanović², V. Todorović¹, S. Stanković¹, S. Milijašević-Marčić²

¹Faculty of Biology, University of Belgrade, Belgrade, Serbia; ²Institute of Pesticides and Environmental Protection, Belgrade

11:30-11:40 EnvM-3 Impact of microbiological fertilizers on soil microbiota

Dz. Kungulovski¹, N. Atanasova-Pancevska¹, D. Dimovska²

¹Department of Microbiology and Microbial Biotechnology, Institute of Biology, Faculty of Natural Sciences and Mathematics, "Ss. Cyril and Methodius" University, Skopje;

²Faculty of Agriculture Sciences and Food, Skopje, Ss Cyril and Methodius University, Skopje.

11:40-11:50 EnvM-4 Apricot (*Prunus armeniaca*) as a host species of plum pox virus (sharka virus, PPV)

A. Stoev

Institute of Soil Science, Agrotechnologies and Plant Protection (ISSAPP) "Nikola Pushkarov", Sofia

11:50-12:00 EnvM-5 Bacterial and fungal colonization of rock paintings in Magoura cave, Bulgaria

M. Mitova, M. Iliev, R. Ilieva, V. Voynova, V. Groudeva

University of Sofia "Saint Kliment Ohridski", Sofia, Bulgaria

12:00-12:10 EnvM-6 Investigation of mobile phones as a potential source of bacterial contamination

T. Pljesa¹, G. Jelusic^{2,3}, D. Jovanovic¹, A. Beljin¹, S. Randjelovic¹, S. Zivadinovic Tasic¹, I. Pljesa⁴

¹Public Health Institute of Belgrade, Belgrade, Serbia; ²General Hospital "Blazo Orlandic", Bar; ³Private Health Institution "Milmedika", Budva; ⁴Hospital for gynecology and obstetrics, Clinical Hospital Zemun, Belgrade

12:10-12:20 EnvM-7 Phenotype similarities and differences between physiological groups of microorganisms in sediment and water on certain locations of the river Moracha and Skadar lake

D. Radonjic¹, Z. Durisic²

¹Hemomont d.o.o, Podgorica, Montenegro; ²Hidrometerološki zavod, Podgorica

12:20-12:30 EnvM-8 Arsenate and arsenite-loving anaerobic bacterium from van lake, Turkey

E. Ersoy Omeroglu, I. Karaboz

Ege University, Faculty of Science, Biology Department, Basic and Industrial Microbiology Section, Bornova, Izmir

Lunch break (13:00 -14:00)

Session Five B (Hall Conference 5)

Antibiotic Resistance

Chair(s): Athanassios Tsakris, Alexandru Rafila, Vaso Taleski

Plenary lectures

9:00-9:20 AntRes-1 Traditional and innovative technologies meet in diagnostic stewardship programs

Athanassios Tsakris

Department of Microbiology, Medical School, University of Athens, Athens

9:20-9:40 AntRes-2 *Klebsiella pneumoniae* – emergence of resistant strains 2009-2016 at the National Institute of Infectious Diseases "Prof. Dr. Matei Bals" (NIID), Bucharest

Alexandru Rafila^{1,2}, O. Mihaela Dorobat¹, D. Talapan^{1,2}

¹National Institute of Infectious Diseases "Prof. Dr. Matei Bals", Bucharest;

²University of Medicine and Pharmacy "Carol Davila", Buchares

9:40-10:00 AntRes-3 Human infections with *Raoultella ornithinolytica*

Milena Petrovska, G. Jankoska

Institute of microbiology and parasitology, Faculty of medicine, University Ss Cyril and Methodius, Skopje

Oral reports

10:00-10:10 AntRes-4 Antimicrobial resistance and consumption in the Republic of Macedonia in comparison with Balkan region and Europe: results of CAESAR network

N. Panovski¹, B. Kakaraskoska Boceska², Z. Cekovska¹, A. Kaftandzieva¹, G. Boshevska², K. Hristova³, N. Milevska Kostova⁴.

¹Institute of Microbiology and Parasitology, Medical Faculty, University, "Ss Cyril and Methodius", Skopje; ²Institute for Public Health, Skopje; ³Health Insurance Fund, Republic of Macedonia; ⁴Studiorum, Skopje

10:10-10:20 AntRes-5 Investigation of synergistic effect of colistin with imipenem or meropenem against carbapenem resistant *Klebsiella pneumoniae* isolates

D. Öcal, E. Akkan Kuzucu, E. Çalışkan, Z. Dansuk, G. Erdem

University of Health Sciences, Dışkapı Yıldırım Beyazıt Training and Research Hospital, Ankara

10:20-10:30 AntRes-6 Investigation of presence of carbapenemases by carbapenem inactivation method and metallo-beta-lactamases by real time PCR in *Pseudomonas spp.* and *Acinetobacter baumannii* isolates

Y. Afsar², D. Öcal², M. Güzel¹, O. A. Gürbüz³, G. Erdem²

¹Sofia University "St. Kliment Ohridski" Faculty of Biology Department of Microbiology; ²University of Health Sciences, Dışkapı Yıldırım Beyazıt Training and Research Hospital, Ankara; ³29 Mayıs State Hospital, Ankara

Coffee break 10:30 – 11:00

- 11:00-11:10 AntRes-7 Rise of multidrug-resistant non-vaccine type *Streptococcus pneumoniae* clones after implementation of 10-valent pneumococcal conjugate vaccine in Bulgaria**
L. Setchanova¹, A. Alexandrova¹, I. Sirakov¹, D. Dacheva², K. Mihova², R. Kaneva², I. Mitov¹
¹Department of Medical Microbiology, Faculty of Medicine, Medical University, Sofia;
²Molecular Medicine Center, Department of Medical Chemistry and Biochemistry, Faculty of Medicine, Medical University, Sofia
- 11:10-11:20 AntRes-8 Determination of inducible betalactamase and metallobetalactamase in *Pseudomonas aeruginosa* isolates in Sanliurfa, Turkey**
M. Bayraktar, H. Ozcinar
Harran University, Faculty of Medicine, Department of Medical Microbiology, Sanliurfa, Turkey
- 11:20-11:30 AntRes-9 Detection of beta-lactam antibiotic resistance and beta-lactamase genes in environmental Enterobacteriaceae isolates**
H. Zorbozan¹, A. Kimiran²
¹Istanbul University, Institute of Science, Istanbul; ²Istanbul University, Faculty of Science, Department of Biology, Section of Fundamental and Industrial Microbiology, Istanbul
- 11:30-11:40 AntRes-10 Investigation of metallo-beta-lactamase producing strains of *Pseudomonas aeruginosa* and *Acinetobacter baumannii* by phenotypic and molecular methods**
M. Güzel³, Y. Afşar¹, D. Akdogan, P. Moncheva, P. Hristova, D. Saltas, G. Erdem²
¹Ağrı State Hospital, Ağrı; ²University of Health Sciences, Dışkapı Yıldırım Beyazıt Training and Research Hospital, Ankara; ³Private Maltepe Medical Center, İstanbul
- 11:40-11:50 AntRes-11 Direct carbapenem inactivation method for phenotypic detection of carbapenemase production among Enterobacteriaceae**
A.Karakullukcu¹, G. Aygün²
¹Gümüşhane University, Vocational School of Health Services, Gümüşhane;
²Istanbul University, Cerrahpasa Medical Faculty, Department of Medical Microbiology, Istanbul
- 11:50-12:00 AntRes-12 Distribution of phenotypes and genotypes in noninvasive macrolide-resistant *S. pneumoniae* in Serbia**
S. Popović¹, I. Gajić¹, D. Kekić¹, V. Mijac¹, M. Hadnadjev², L. Ranin¹, N. Opavski¹
¹Institute of Microbiology and immunology Medical Faculty, University of Belgrade, Belgrade; ²Department of Bacteriology at Institute for Pulmonary Diseases of Vojvodina, Sremska Kamenica, Serbia
- 12:00-12:10 AntRes-13 Group B *Streptococcus* isolated from children with invasive infections in Serbia**
A.Kekić¹, I. Gajić¹, S. Popović¹, L. Ranin¹
¹Institute for Microbiology and immunology, Medical Faculty, University of Belgrade, Belgrade

- 12:10-12:20 AntRes-14 Antibiotic resistance profiles of *Listeria monocytogenes* isolated from cattle and sheep carcasses**
B. Onaran¹, G. Cufaoglu², N.D. Ayaz, M. Goncuoglu, F.S. Bilir Ormanci¹, I. Erol³
¹Department of Food Hygiene and Technology, Faculty of Veterinary Medicine, Ankara University, Diskapi, Ankara; ²Department of Food Hygiene and Technology, Faculty of Veterinary Medicine, Kirikkale University, Yahsihan, Kirikkale; ³General Directorate of Food and Control, Republic of Turkey Ministry of Food Agriculture and Livestock, Lodumlu, Ankara
- 12:20-12:30 AntRes-15 Photodynamic antimicrobial activity of new porphyrin derivatives against methicillin resistant *Staphylococcus aureus***
H. Taşlı¹, A. Akbiyık², N. Topaloğlu³, V. Alptüzün⁴, Parlar S⁴
¹Ege University Faculty of Pharmacy, Department of Pharmaceutical Microbiology, Izmir; ²PhD student, Ege University Faculty of Pharmacy, Department of Pharmaceutical Microbiology, Izmir; ³Izmir Katip Celebi University Faculty of Engineering and Architecture, Department of Biomedical Engineering, Izmir; ⁴Ege University Faculty of Pharmacy, Department of Pharmaceutical Chemistry, Izmir
- 12:30-12:40 AntRes-16 The role of RND type efflux pumps in colistin resistant *Acinetobacter baumannii***
S. Satilmis, G. Gelmez Altinkanat, B. Aksu, M. Hasdemir Ufuk, G. Soyletir
Marmara University Faculty of Medicine, Medical Microbiology Department, Istanbul

Lunch break (13:00 -14:00)

Session Six (Hall Kiev)

New Achievements in Parasitology

Chair(s): Spiro Radulovic, Seray Töz

Plenary lecture

- 14:00-14:20 P-1 Laboratory diagnostics of tissue helminthic zoonoses in Serbia**
Dusan Lalošević¹, V. Lalošević², S. Radulović³
¹Faculty of Medicine, University of Novi Sad, and Pasteur Institute of Serbia, Novi Sad; ²University of Novi Sad, Faculty of Agriculture; ³Outpatient clinic "Prof. Karadaglic", Belgrade

Oral reports

- 14:20-14:30 P-2 Current status of parasitic zoonoses in Serbia**
I. Čolović Čalovski¹, S. Mitrović¹, E. Dubljanin¹, M. Cvetković¹, M. Miljević², AM. Džamić¹
¹Institute for microbiology and immunology, Faculty of medicine, University of Belgrade; ²Pasteur Institute of Novi Sad, Novi Sad
- 14:30-14:40 P-3 Prevalence of amoebiasis by using adhesine antigen test for *Entamoeba histolytica* in Afyon Kocatepe University ANS practice and research hospital**
R. Kesli, H. Tokay, O. Turkyilmaz
Afyon Kocatepe University, School of Medicine, Department of Medical Microbiology, Afyonkarahisar, Turkey
- 14:40-14:50 P-4 The first detection of leishmaniasis in turkish wild small rodents: molecular detection of *Leishmania infantum* and *Leishmania major* in turkish wild rodents**
M. Karakuş¹, M. A. Öktem², M. Sözen³, F. Matur⁴, F. Çolak³, Y. Özbel¹, S. Töz¹
¹Ege University, Faculty of Medicine, Parasitology Department, İzmir; ²Dokuz Eylül University, Faculty of Medicine Microbiology Department, İzmir; ³Bülent Ecevit University, Faculty of Science, Department of Biology, Zonguldak; ⁴Dokuz Eylül University, Faculty of Science, Biology Department, İzmir
- 14:50-15:00 P-5 Midgut bacterial diversity of wild populations of *Phlebotomus (P.) papatasi*, the vector of zoonotic cutaneous Leishmaniasis (ZCL) in Turkey**
M. Karakuş^{1#a}, B. Karabey², Ş. O. Kalkan², G. Özdemir², G. Oğuz³, Ö. E. Kasap³, B. Alten³, S. Töz¹, Y. Özbel¹
¹Ege University, Faculty of Medicine, Department of Parasitology, İzmir; ²Ege University, Faculty of Science, Department of Biology, İzmir; ³Hacettepe University, Faculty of Science, Department of Biology, Ankara; ^{#a} Current Address: Postdoctoral Associate at Yale University, Yale School of Public Health, New Haven, Connecticut

- 15:00-15:10 P-6 Investigation of the association of *Blastocystis* sp. with chronic urticaria**
M. Aykur¹, A. Çamyar², D. F. Günsen², G. B. Türk³, Z. A. Sin², H. Dagci¹
¹Ege University, Faculty of Medicine, Department of Parasitology, Izmir; ²Ege University, Faculty of Medicine, Department of Immunology, Izmir; ³Ege University, Faculty of Medicine, Department of Dermatology, Izmir
- 15:10-15:20 P-7 Molecular prevalence of *Blastocystis hominis* in patients with diarrhea**
Y. E. Beyhan, H. Yılmaz, Z. Tas Cengiz
 Department of Medical Parasitology, Yuzuncu Yil, University Faculty of Medicine, Van, Turkey
- 15:20-15:30 P-8 Detection and treatment of acute toxoplasmosis in stray cats of Izmir, Turkey**
M. Karakavuk¹, H. Can², N. Selim³, B. Yesilsiraz⁴, E. Atlı⁴, F. Demir⁵, A. Gül⁶, H. G. Ozdemir⁷, N. Alan⁸, M. Yalcin⁸, O. Ozkurt⁹, M. Aras⁹, T. Celik¹⁰, S. Can¹¹, A. Değirmenci Doskaya¹, Y. Gürüz¹, M. Doskaya¹
¹Ege University Faculty of Medicine, Department of Parasitology, Bornova / Izmir; ²Department of Biology, Molecular Biology Section, Ege University Faculty of Science, Bornova, Izmir; ³Konak Municipality, Veterinary Affairs Directorate, Konak /Izmir; ⁴Narlıdere Municipality, Directorate of Veterinary Affairs, Narlıdere / Izmir; ⁵Ege University Institute of Science, Department of Biomedical Technologies, Bornova / Izmir; ⁶Ege University Institute of Science, Bioengineering Department, Bornova / Izmir; ⁷The Protection and Development Union of Izmir Bird Paradise, Konak/ Izmir; ⁸Cigli Municipality, Veterinary Affairs Directorate, Cigli / Izmir; ⁹Karabaglar Municipality, Veterinary Affairs Directorate, Karabaglar / Izmir; ¹⁰Karsiyaka Municipality, Veterinary Affairs Directorate, Karsiyaka / Izmir; ¹¹Celal Bayar University, Computer Research and Application Center, Yunussemre/Manisa, Turkey
- 15:30-15:40 P-9 The geographical distribution and prevalence of *Echinococcus multilocularis* in red foxes and jackals in the Vojvodina, Serbia**
M. Miljevic¹, V. Simin¹, Đ. Vukomanović¹, I. Čalovski Čolović³, D. Lalošević^{1,2}
¹Pasteur Institute of Novi Sad, Serbia; ² Faculty of Medicine, University of Novi Sad; ³Institute for microbiology and immunology, Faculty of Medicine, University of Belgrade
- 15:40-15:50 P-10 Investigation of fascioliasis cross-reactions in cystic echinococcosis serological diagnosis**
M. Akil¹, M. Aykur¹, M. Karakavuk¹, A. Ozkeklkci², M. Doskaya¹, N. Altintas¹
¹Ege University School of Medicine, Department of Parasitology, Bornova, Izmir; ²Dr. Ersin Arslan Training and Research Hospital, Parasitology Laboratory, Sahinbey, Gaziantep, Turkey
- 15:50-16:00 P-11 Male child with myiasis caused by *Sarcophaga haemorrhoidalis***
I. Tuncer¹, N. Ciftci¹, B. Dik²
¹Department of Microbiology, Faculty of Medicine, Selcuk University, Konya; ²Faculty of Veterinary Faculty, Selcuk University, Konya

16:00-16:10 P-12 **Isolation, identification and antibiotic susceptibility of *L. garvieae* from trout (*Oncorhynchus mykiss*) with signs of lactococcosis in Bulgaria**
P. Orozova¹, I. Sirakov², E. Mileva¹, Kirova¹, V. Chikova¹, Hr. Naidenski³, I. Mitov²
¹National Diagnostic Science and Research Veterinary Medical Institute, Department of Aquaculture and Fish and Bee Diseases, Sofia; ²Medical University, Department of Microbiology, Sofia, ³The Stephan Angeloff Institute of Microbiology Department of Infectious Microbiology, Bulgarian Academy of Sciences, Sofia

16:10-16:20 P-13 **Import of reptiles and risk of transmission of exotic ticks**
I. Katerinova, E. Mileva, P. Orozova, N. Nedelchev
National Diagnostic & Research Veterinary Medical Institute „Prof. Dr. G. Pavlov“, Sofia

Coffee break 16.20-16.40

Probiotics and Prebiotics

Chair(s): Ilia Iliev, Andi Koraqi

Plenary lecture

16:40-17:00 PP-1 ***In vitro* and *in vivo* antimicrobial activity of *Lactobacillus bulgaricus* GLB44 against *Helicobacter pylori***
Kiril Petkov¹, R. Tropcheva², Y. Valerieva³, I. Terziev⁴, B. Vladimirov³
¹ProViotic AD, Sofia; ²Department of Biotechnology, Faculty of Biology, Sofia University St. Kliment Ohridski; ³Clinical Centre of Gastroenterology, University Hospital “Queen Joanna/ISUL, Sofia; ⁴Department of Pathology, University Hospital “Queen Joanna/ISUL, Sofia

Oral reports

17:00-17:10 PP-2 **Anti-fungal activity and potential of lactic acid bacteria for bio-preservation**
S. Danova¹, V. Nemska^{1,2}, L. Dobрева¹, R. Tropcheva¹, J. Miteva-Staleva¹, V. Dishlijska¹, E. Krumova¹
¹The Stephan Angeloff Institute of Microbiology, Bulgarian Academy of Sciences, Sofia; ²Faculty of Chemical and System Engineering, UCTM, Sofia

17:10-17:20 PP-3 **Destruction of *Escherichia coli* biofilm by probiotic strain *Lactobacillus bulgaricus* Glb44**
R. Tropcheva¹, H. Boleti², E. Xingi², Ts. Paunova-Krasteva³, D. Borisova³, K. Petkov⁴, S. Stoitsova³
¹Department of Biotechnology, Faculty of Biology, Sofia University St. Kliment Ohridski, Sofia; ²Light Microscopy Unit, Hellenic Pasteur Institute, Athens; ³Department of General Microbiology, Institute of Microbiology, Sofia; ⁴ProViotic AD, Sofia

17:20-17:30 PP-4 **Lactic acid bacteria isolated from human milk: antibacterial and probiotic characteristics**
U. Bagci, S. T. Ozmen, A. Temiz
¹Department of Food Engineering, Faculty of Engineering, Trakya University, Edirne; ²Department of Food Engineering, Faculty of Agriculture, Uludağ University, Bursa; ³Department of Food Engineering, Faculty of Engineering, Hacettepe University, Ankara

- 17:30-17:40 PP-5 Fructophilic lactic acid bacteria from honeybees as a source of glucansucrase enzymes**
T. Vasileva¹, V. Bivolarski¹, I. Ivanova², I. Iliev¹
¹Plovdiv University "Paisii Hilendarski", Department of Biochemistry and Microbiology, Plovdiv; ²Department of General and Industrial Microbiology, Sofia University, Sofia
- 17:40-17:50 PP-6 A novel natural probiotic strain *Bacillus methylotrophicus* BCS1 isolated from zebrafish intestinal flora**
B. Ekim¹, C. Özdemir², S. Şahin³, S. Güçlü Durgun⁴.
¹Gazi University Life Sciences Application and Research Center, Golbasi, Ankara; ²Ankara University Faculty of Science, Department of Biology, Tandogan, Ankara; ³Dumlupınar University, Faculty of Medicine, Department of Medical Biology, Kutahya; ⁴Gazi University, Faculty of Medicine, Department of Medical Biology, Besevler, Ankara
- 17:50-18:00 PP-7 Detection of antimicrobial activity of probiotic microorganisms in natural and commercial probiotic products, pharmacy preparations on clinical *Staphylococcus aureus* isolates by spot on lawn method**
P. Rayaman
Marmara University, Faculty of Pharmacy, Pharmaceutical Microbiology Department, Haydarpaşa, Istanbul

Best Posters Awards

18:00 Congress Adjourn