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## Program

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### Day I – Monday 10 September 2018

#### Arrival/Registration with light refreshments

9.00 – 9.15

Opening remarks:

**Andrey Sibirny**, Director of FEMS

**Joanna Karczewska-Golec**, ASM Country Ambassador to Poland, *“American Society for Microbiology (ASM) – science, diplomacy, international relations, and beyond”*

9.15 – 10.00

Keynote Lecture

**Antonio Villaverde**, *“Bacterial amyloids in materials sciences and biomedicine”*

#### Session I. Microbial Biotechnology

Professor Andrey Sibirny, Chair

10.00 – 10.30

Opening lecture:

**Andrey Sibirny** *“Metabolic engineering of the thermotolerant yeast *Ogataea polymorpha* for efficient conversion of lignocellulosics and by-product glycerol to ethanol”*

10.30 – 11.00

Opening lecture:

**Patrick Fickers** *“The yeast *Yarrowia lipolytica* as a cell factory”*

11.00 – 11.45

Oral Presentations:

**Triinu Visnapuu**, *“Synthesis of raffinose-derived potential prebiotics by bacterial levansucrase and their effects on composition and metabolism of fecal microbiota of normal- and overweight children”*

**Kärt Kanger** *“Microbial community structure and resistome during anaerobic co-digestion of food waste and commercial organic waste”*

**Magdalena Czemińska** *“Capsular exopolymer obtained from *Rhodococcus opacus* FCL1069 cells”*

11.45 – 12.00

Coffee break

#### Session II. Molecular Microbiology

Professor Volkmar Passoth, Chair

12.00 – 12.30

Opening lecture:

**Volkmar Passoth** *“Lipids from non-conventional feedstocks by oleaginous yeasts for sustainable biodiesel and fish feed”*

12.30 – 14.00

Oral Presentations:

**Richard Yanagihara** *“Sequence and phylogenetic analyses of Dobrava-Belgrade virus in *Apodemus agrarius* from southwestern Poland”*

**Alessandro Negri** “*Transcriptome analysis of cells carrying Type II Csp231I restriction-modification system reveals the unexpected link between its C regulatory protein and  $\lambda$  prophage*”

**Kadi Ainsaar** “*Dual role of TonB3-PocAB system of Pseudomonas putida*”

**Jaunius Urbonavičius** “*Discovery of novel bacterial genes encoding the enzymes acting on modified uracil/uridine derivatives and their use for gene therapy in cancer treatment*”

**Maciej Dylewski** “*A strange case of GreA protein and GraL sRNA*”

**Triinu Visnapuu** “*A  $\beta$ -N-acetylhexosaminidase PhNab20A of the marine bacterium Paraglaciicola hydrolytica degrades chito-oligosaccharides and transfers GlcNAc to acceptors*”

14.00 – 15.45 Lunch, ASM Mentoring Luncheon

### Session III. Virology and phages

Professor Rimantas Daugelavičius, Chair

15.45 – 16.15 Opening lecture:

**Rimantas Daugelavičius** “*Express-analysis of bacteria-phage interaction*”

16.15 – 18.00 Oral Presentations:

**Katarzyna Kosznik-Kwaśnicka** “*Bacteriophages in fight against Salmonella enterica – does it work? Evaluation of phage effectiveness in eradication of S. enterica in liquid cultures and biofilm*”

**Aliona Špakova** “*Three bacteriophage-originated rod-shaped structures in yeast: a new tools for nanotechnology?*”

**Katarzyna Sitarz** “*Raman spectroscopy as a method of HPV infection identification and cervical cancer diagnosis*”

**Adelina Stoyanova** “*Double antiviral combinations applied by consecutive alternating administration against Coxsackievirus B1 infection in mice*”

**Richard Yanagihara** “*Partial Characterization of a Highly Divergent Hantavirus Isolated from the European mole (Talpa europaea) in Poland*”

**Paulina Niedźwiedzka-Rystwej** “*Giant viruses and virophages – how tiny „giants” revolutionized the view of the world of microbes*”

18.00 Conference Party

## Day 2 - Tuesday 11 September 2018

8.45 – 9.00 Coffee

9.00 – 9.45 Keynote Lecture:

**Joanna Verran**, “*Communicating your research to different audiences*”

### Session IV. Environmental Microbiology I

Professor Jaak Truu, Chair

9.45 – 10.15 Opening lecture:

**Jaak Truu** “*Antibiotic resistome in environmental technology and management*”

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- 10.15 – 13.45 Oral Presentations:  
**Mykola Shtenikov** *“Diversity and antagonistic activity of endospore-forming bacteria of bottom sediments of the Black Sea”*  
**Lukasz Dziewit** *“Diversity and role of plasmids in adaptation of psychrotolerant bacteria to hostile Arctic and Antarctic environment”*  
**Kristjan Oopkaup** *“Bacterial community dynamics in the biofilm of an experimental domestic greywater treatment system”*  
**Ewa Kotlarska** *“ESBL-producing *Aeromonas* spp. isolated from wastewater and marine environment”*
- 11.15 – 13.15 Coffee Break & Poster Session
- 13.15 – 13.45 BIO-RAD - lecture
- 13.45 – 14.45 Lunch
- Session V. Environmental Microbiology II**
- Professor Alexander Rapoport, Chair
- 14.45 – 15.15 Opening lecture:  
**Alexander Rapoport** *“Anhydrobiosis in yeasts and its possible applications”*
- 15.15 – 16.15 Oral Presentations:  
**Roman Marks** *“Bubbles/Droplets-Mediated Assembly/Processing of Cellular Matter”*  
**Rūta Stanislauskienė** *“Investigation of pyridine degradation in actinobacteria”*  
**Dominika Chmolowska** *“Soil microbial communities - super tights of ecosystems”*  
**Marika Truu** *“Assessment of microbial community response to accidental release of oil into the Arctic marine ecosystem”*
- 16.15 – 16.45 Coffee Break
- Session VI. Environmental Microbiology III**
- Professor Grzegorz Węgrzyn, Chair
- 16.45 – 18.00 Oral Presentations:  
**Anna Toruńska-Sitarz** *“Genotypic and phenotypic diversity of cyanobacteria classified to *Lyngbya* genus”*  
**Arevik Vardanyan** *“Bioleaching of pyrite by mixed cultures of iron and/or sulphur oxidizing bacteria isolated in Armenia”*  
**Amna Al Otaiba** *“Bacterial and Chemical Qualities of Potable Water in the Al Ain City - United Arab Emirates”*  
**Modestas Ruzauskas** *“Prevalence of multi-resistant bacteria in aquacultured and wild fish in Lithuania”*  
**Anna Khachatryan** *“Influence of iron, pH and biofilm formation on metal resistance of iron oxidizing bacteria”*
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**Day 3 - Wednesday 12 September 2018**

8.45 – 9.00

Coffee

**Session VII. Medical Microbiology**

Professor Grzegorz Węgrzyn, Chair

9.00 – 13.30

Oral Presentations:

**Ivana Kerkez** *"In vitro infection model reveals restricted intracellular activity of antibiotics against uropathogenic Escherichia coli"*

**Richard Yanagihara** *"Widespread Distribution of Soricid- and Talpid-borne Hantaviruses in Poland"*

**Agata Zdarta** *"Assessment of cell surface properties and hydrocarbons degradation potential of three bacterial strains"*

**Justyna Ruchala** *"Role of the peroxisomes and pentose-phosphate pathway in xylose alcoholic fermentation of conventional and non-conventional yeasts"*

**Bożena Czubat** *"The contribution of MSMEG4305 protein in the synthesis of vitamin B12 in Mycobacterium smegmatis"*

10.15 – 12.15

Coffee Break &amp; Poster Session

12.15 – 13.30

Oral Presentations:

**Riikka Ihalin** *"Link between bacterial DNA uptake and host cytokine sequestering"*

**Natalia Łubowska** *"Characterization of the newly isolated lytic bacteriophages and their efficacy against multi-drug resistant Staphylococcus aureus biofilm"*

**Terhi Maula** *"Interleukin-8 interaction with lipopolysaccharide from Aggregatibacter actinomycetemcomitans"*

**Laura Alksne** *"Rapid confirmation of methicillin resistant Staphylococcus spp. by MALDI-TOF MS in clinical isolates from Latvia"*

**Eglė Lastauskienė** *"Discovery of the new super-resistant phenotype of Candida yeasts grown under the modeled microgravity conditions"*

13.30 – 14.30

Lunch

14.30

Closing remarks