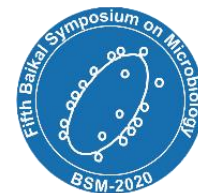




## PROGRAMME

### V-th Baikal Symposium on Microbiology "Microorganisms and Viruses in Water Ecosystems" (BSM - 2020)

<http://www.lin.irk.ru/bsm2020/en/>



Please note that the Programme shows Moscow broadcast time!

#### September 10, 2020

09:00 – 09:10 Opening of the Symposium. Welcome Address by the Chairman of the Organizing Committee, Dr. Sc. (Biology), prof., V.V. Drucker

Chairman: *Valentin V. Drucker*

Deputy Chairman: *Sergey A. Potapov*

#### Plenary session

09:10 – 09:30 **Tamara I. Zemskaya**, Limnological Institute SB RAS, Irkutsk  
Ecology of estuarine waters of small rivers of southern Baikal in 2018

09:30 – 09:50 **Olga I. Belykh**, Limnological Institute SB RAS, Irkutsk  
Cyanobacteria in Lake Baikal: genetic and taxonomic diversity, abundance, toxicity

09:50 – 10:10 **Andrey L. Bryukhanov**, Lomonosov Moscow State University, Moscow  
Communities of potentially corrosive microorganisms of the littoral zone of Kislaya Guba (Barents Sea)

10:10 – 10:30 **Alina R. Galperina**, Astrakhan state technical university, Astrakhan  
Pigment system of cyanobacteria in the presence of heavy metals

10:30 – 10:50 **Alexey V. Safonov**, A.N. Frumkin Institute of Physical chemistry and Electrochemistry of the Russian academy of sciences, Moscow  
Complex *in situ* bioremediation of upper aquifers near the uranium sludge depository

10:50 – 11:10 **Darya A. Egorova** National Research Center of Epidemiology and Microbiology n. a. N.F. Gamaleya, Moscow  
Adaptation and cross species interaction of *Chromobacterium spp.* within aquatic biofilms in temperate climate zone

#### Oral sessions

11:15 – 11:30 **Elena G. Lebedeva**, Far Eastern Geological Institute FEB RAS, Vladivostok  
Composition of physiological bacterial groups in thermal springs of the Kuldur deposit (Amur oblast, Russian Far East)

11:30 – 11:45 **Olga N. Pavlova**, Limnological Institute SB RAS, Irkutsk  
Processes of anaerobic oxidation of oil in bottom sediments of Lake Baikal

11:45 – 12:00 **Svetlana V. Zaitseva**, Institute of General and Experimental Biology SB RAS, Ulan-Ude  
Cosmopolitan freshwater bacteria in microbial community of recreational freshwaters in Baikal region

12:00 – 12:15 **Anna V. Lomakina**, Limnological Institute SB RAS, Irkutsk  
Anaerobic oxidation of methane in differences types of geological structures at Lake Baikal

- 12:15 – 12:30 **Svetlana M. Chernitsyna**, Limnological Institute SB RAS, Irkutsk  
Distribution and morphology of colorless sulfur bacterium of the genus *Thiothrix* in reservoirs of Baikal rift zone
- 12:30 – 12:45 **Galina V. Podlesnaya**, Limnological Institute SB RAS, Irkutsk  
Diversity of nitrifying bacteria in microbial communities of water and epilithic biofilms of the Lake Baikal littoral zone
- 12:45 – 13:00 **Ekaterina A. Zatsarinnaya**, Ryazan State University named for S. Yesenin, Ryazan  
Antibiotics and phage resistant isolates of *Enterobacteriaceae* as a source of new infectious risks in surface water bodies
- 13:00 – 13:15 **Elena V. Sukhanova**, Limnological Institute SB RAS, Irkutsk  
Diversity of polyketide synthase (PKS) genes in the metagenomic community of epilithic biofilms from the littoral zone of Lake Baikal

## September 11, 2020

08:50 – 09:00 Beginning of the second day of the Symposium

Chairman: *Olga N. Pavlova*

Deputy Chairman: *Andrey Y. Krasnopeev*

### Plenary session

- 09:00 – 09:20 **Valentin V. Drucker**, Limnological Institute SB RAS, Irkutsk  
21st century – century of virology
- 09:20 – 09:40 **Olga A. Stepanova**, Institute of Natural and Technical Systems, Sevastopol  
Results of Black Sea algal viruses monitoring
- 09:40 – 10:00 **Petr V. Evseev**, M.M. Shemyakin and Yu.A. Ovchinnikov Institute of Bioorganic  
Genomic characterization of *Pseudomonas* bacteriophage AN14 from Lake Baikal aquatic system
- 10:00 – 10:20 **Sergey A. Potapov**, Limnological Institute SB RAS, Irkutsk  
Characteristics of the viromes in the pelagic zone of Lake Baikal
- 10:20 – 10:40 **Airat R. Kayumov**, Kazan Federal University, Kazan  
The mutual alteration of bacterial susceptibility to antimicrobials in dual-species biofilm
- 10:40 – 11:00 **Nadezhda M. Popova**, A.N. Frumkin Institute of Physical chemistry and Electrochemistry of the Russian academy of sciences, Moscow  
The evolution of microbial biofilms on sandy rocks in aquifers with anthropogenic pollution

### Oral sessions

- 11:00 – 11:15 **Darima D. Barkhutova**, Institute of General and Experimental Biology SB RAS, Ulan-Ude  
Microbial community diversity in hot springs of the Baikal rift zone
- 11:15 – 11:30 **Sergey V. Bukin**, Limnological Institute SB RAS, Irkutsk  
Methylotrophic methanogens in bottom sediments of Lake Baikal
- 11:30 – 11:45 **Anna A. Kublanovskaya**, Lomonosov Moscow State University, Moscow  
Formation of the phosphate-resistant communities of microalgae and bacteria in the subpolar waters

- 11:45 – 12:00 **Maria Y. Suslova**, Limnological Institute SB RAS, Irkutsk  
Distribution and number of cultured bacteria of the phosphorus cycle in the ecosystem of Lake Baikal
- 12:00 – 12:15 **Ivan A. Khalzov**, Limnological Institute SB RAS, Irkutsk  
Microbial community associated with baicalian crustacea near gas-oil deepwater discharges
- 12:15 – 12:30 **Irina A. Lipko**, Limnological Institute SB RAS, Irkutsk  
Genetic diversity of Actinobacteria inhabiting water and sponges of Lake Baikal
- 12:30 – 12:45 **Yulia R. Shtykova**, Limnological Institute SB RAS, Irkutsk  
Antibiotic-resistant opportunistic bacteria in the coastal zone of Lake Baikal
- 12:45 – 13:00 **Ekaterina A. Zimens**, Limnological Institute SB RAS, Irkutsk  
Distribution of the number of cultured heterotrophic bacteria and the total number of bacteria in the surface microlayer, water column, and epilithic biofilms of the littoral zone of Lake Baikal
- 13:00 – 13:15 **Lyubov I. Chernogor**, Limnological Institute SB RAS, Irkutsk  
Microbiome analysis of Baikal sponges of the *Lubomirskia baicalensis*
- 13:15 Closing of the Symposium. Chairman of the Organizing Committee, Dr. Sc. (Biology), prof., **Valentin V. Drucker**

#### Poster report:

**Elcheninov A.G., Podosokorskaya O.A., Toschakov S.V., Bonch-Osmolovskaya E.A., Kublanov I.V.**

Extending the diversity of thermophilic planctomycetes: *Thermogemmata* gen. nov.

Research Center of Biotechnology RAS, Winogradsky Institute of Microbiology, Moscow

**Kuzikova I.L., Zaitseva T.B., Andronov E.E., Safronova V.I., Medvedeva N.G.** Change of bacterial community structure in nonylphenols-degrading sediments

Scientific Research Center for Ecological Safety at the Russian Academy of Sciences, St. Petersburg

**Sabirova A.E.<sup>1</sup>, Gorshkova A.S.<sup>2</sup>, Drucker V.V.<sup>2</sup>, Kayumov A.R.<sup>1</sup>** Synergistic action of bacteriophage with antibiotics on *Pseudomonas aeruginosa* biofilms

<sup>1</sup>Kazan Federal University, Kazan; <sup>2</sup>Limnological Institute of the SB RAS, Irkutsk

**Samylina O.S.<sup>1</sup>, Namsaraev Z.B.<sup>2</sup>** Effect of salinity on phototrophic communities from Tanatar VI soda lake (Altai Region, Russia)

<sup>1</sup>Winogradsky Institute of Microbiology, Research Center of Biotechnology, Russian Academy of Sciences, Moscow, <sup>2</sup>NRC "Kurchatov Institute", Moscow

#### Participation in absentia with the publication of abstracts:

**Andreeva N.A.** Dumbbell-like organisms of marine ecotopes in the coastal waters of the Sevastopol region

Institute of Natural and Technical Systems, Sevastopol

**Arslanova M.M., Shornikova E.A.** The taxonomic diversity of the microbial community of rivers within oilfields in Khanty-Mansi Autonomous Okrug–Ugra

Surgut State University, Surgut

**Bashenkhaeva M.V.<sup>1</sup>, Zakharova Yu.R.<sup>1</sup>, Kopyrina L.I.<sup>2</sup>, Petrova D.P.<sup>1</sup>, Galachyants Yu.P.<sup>1</sup>, Likhoshway Ye.V.<sup>1</sup>** Structure of bacterial, archaeal and microeukaryotic communities of upper sediment in Lake Vorota, Pole of Cold (Yakutia)

<sup>1</sup>Limnological Institute of the SB RAS, Irkutsk; <sup>2</sup>Institute for Biological Problems of Cryolithozone SB RAS, Yakutsk

**Chkhenkeli V.A.** Influence of Trametin on the basis of basidiomycete *Trametes pubescens* (Shumach.: Fr.) Pilat. on the biosynthesis of  $\alpha$ - and  $\gamma$ -interferons in laboratory animals  
Siberian Federal Scientific Center of Agrobiotechnologies RAS, Irkutsk

**Dagurova O.P., Kozyreva L.P., Tsydenova B.V., Buryukhaev S.P., Zaitseva S.V., Barkhutova D.D.** Microbial community of large freshwater lakes of the Eravno-Kharginskya lake system  
Institute of General and Experimental Biology of the SB RAS, Ulan-Ude

**Ovsiannikova D.M., Martinova A.V.** Microplastics and water microbiota  
Far Eastern Federal University, Vladivostok

**Sboichakov V.B., Reshetnikova O.V.** Microbial degradation of wastewater  
Luga Institute (branch) of the State Autonomous Educational Institution of Higher Education of the Leningrad Region «Pushkin Leningrad State University», Luga

**Shapiro T.<sup>1</sup>, Dolnikova G.<sup>1</sup>, Ivanova E.<sup>2</sup>, Lobakova E.<sup>1</sup>** Bacterial biofilm formation in fuel <sup>1</sup>Lomonosov Moscow State University, Moscow; <sup>2</sup>Gubkin Russian State University of Oil and Gas (National Research University), Moscow

**Smirnova G.V., Tyulenev A.V., Muzyka N.G., Ushakov V.Y., Oktyabrsky O.N.** Changes in the redox state of *Escherichia coli* cells during phosphate starvation  
Institute of Ecology and Genetics of Microorganisms, Perm Federal Research Center, Perm

**Sukhanova E.V., Suslova M.Yu., Zimens E.A.** Identification of heterotrophic phosphate and silica solubilizing bacterial strains isolated from Lake Baikal  
Limnological Institute of the SB RAS, Irkutsk

**Suslova M.Yu.<sup>1</sup>, Grebenshchikova V.I.<sup>2</sup>** Water quality monitoring of the Angara River source  
<sup>1</sup>Limnological Institute of the SB RAS, Irkutsk; <sup>2</sup>Vinogradov Institute of Geochemistry of the SB RAS, Irkutsk

**Trizna E.Y., Baidamshina D.R., Mironova A.V., Kayumov A.R.** The mutual alteration of bacterial susceptibility to antimicrobials in dual-species biofilm  
Kazan Federal University, Kazan

**Zhuravleva D.E., Yadykova L.L., Iskhakova Z.I., Kayumov A.R.** Glutamine synthetase from *Lactobacillus hilgardii* LMG 7934  
Kazan Federal University, Kazan

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