

**The Limnological Institute of the Siberian branch of the
Russian Academy of Sciences**

**VIII Russian Scientific Conference
with international participation**

**"ALGAE: PROBLEMS OF TAXONOMY AND ECOLOGY,
USE IN MONITORING AND BIOTECHNOLOGY"**

**September 7-11, 2026
Listvyanka, Irkutsk
Russia**

PROGRAMME



Conveners:

(Limnological Institute of the Siberian Branch of the Russian Academy of Sciences, Russia, Irkutsk)

LIKHOSHWAY Yelena D.Sc., Prof., Head of Cell
Chair of the Organizing Committee Ultrastructure Dept.

BELYKH Olga *PhD, Assoc. Prof., Head of Water Microbiology Lab.*

BEDOSHVILI Yekaterina *PhD, Senior Researcher Cell Ultrastructure Dept.*

BESSUDOVA Anna *PhD, Senior Researcher, Cell Ultrastructure Dept.*

FIRSOVA Alena *PhD, Senior Researcher, Cell Ultrastructure Dept.*

GALACHYANTS Yuri *PhD, Senior Researcher, Cell Ultrastructure Dept.*

PETROVA Daria *PhD, Senior Researcher, Cell Ultrastructure Dept.*

SHERBAKOVA Tatyana *PhD, Researcher, Cell Ultrastructure Dept.*

SOROKOVIKOVA Ekaterina *PhD, Senior Researcher, Water Microbiology Lab.*

ZAKHAROVA Yulia *PhD, Senior Researcher, Cell Ultrastructure Dept.*

KRASNOPEEV Andrey *Researcher, Water Microbiology Lab.*

DOLID Evgeniy *Head of Information and Analytical Dept.*

Scientific Committee

ABDULLIN Shamil *Dr. Sc., Federal Scientific Center for Biodiversity of Terrestrial Biota of East Asia, Russia, Vladivostok*

BACHURA Yulia *PhD, F. Skoryna Gomel State University, Belarus, Gomel*

BELYAEVA Polina *Dr. Sc., Institute of Ecology and Genetics of Microorganisms, Russia, Perm*

BELYKH Olga *PhD, Assoc. Prof., Limnological Institute, Russia, Irkutsk*

VODENEEVA Yekaterina *PhD, N.I. Lobachevskiy Nizhny Novgorod State University, Institute of Biology and Biomedicine, Russia, Nizhny Novgorod*

VOLODINA Alexandra	<i>PhD, Assoc. Prof., I. Kant Baltic Federal University, Russia, Kaliningrad</i>
GAISINA Lira	<i>Dr. Sc., Assoc. Prof., M. Akmulla Bashkir State Pedagogical University, Russia, Ufa</i>
GONCHAROV Andrey	<i>Dr. Sc., Corr. Mem. RAS, Federal Scientific Center for Biodiversity of Terrestrial Biota of East Asia, Russia, Vladivostok</i>
GUSEV Evgeniy	<i>PhD, A. N. Severtsov Institute of Ecology and Evolution, Russia, Moscow</i>
DAVIDOVICH Nikolai	<i>Dr. Sc., T. I. Vyazemsky Karadag Scientific Station — Karadag Nature Reserve, Russia, Feodosia</i>
DAVYDOV Denis	<i>Dr. Sc., N.A. Avrorin Polar-Alpine Botanical Garden, Russia, Apatity</i>
KAMNEV Alexander	<i>Dr. Sc., Prof., P.P. Shirshov Institute of Oceanology, Russia, Moscow</i>
KAPUSTIN Dmitry	<i>PhD, K.A. Timiryazev Institute of Plant Physiology, Russia, Moscow</i>
KULIKOVSKIY Maxim	<i>Dr. Sc., K.A. Timiryazev Institute of Plant Physiology, Russia, Moscow</i>
LIKHOSHWAY Yelena	<i>D.Sc., Prof., Limnological Institute, Russia, Irkutsk</i>
MALTSEV Evgeny	<i>Dr. Sc., Assoc. Prof., K.A. Timiryazev Institute of Plant Physiology, Russia, Moscow</i>
MALTSEVA Irina	<i>Dr. Sc., Prof., Melitopol State University, Russia, Melitopol</i>
NEVROVA Elena	<i>Dr. Sc., Assoc. Prof., A. O. Kovalevsky Institute of Biology of Southern Seas, Russia, Sevastopol</i>
PATOVA Yelena	<i>PhD, Institute of Biology, of the Komi Scientific Research Center, Russia, Syktyvkar</i>
SELEZNEV Vladimir	<i>Dr. Sc., Prof., Institute of Ecology of the Volga Basin, Russia, Tolyatti</i>
SIDOROV Roman	<i>PhD., K.A. Timiryazev Institute of Plant Physiology, Russia, Moscow</i>
SYSOVA Elena	<i>PhD, Assoc. Prof., Belarusian State University, Belarus, Minsk</i>

Monday, September 7

Lobby of the Hotel Pribaikalskaya

10.30-15.00: Registration

Lunch on your own

15.00-18.00: Pre-conference excursion to the Baikal Museum

Small Conference Hall

18.00-19.00: Poster set-up

Tuesday, September 8

Large Conference Hall

9.00-9.40: Opening and welcoming remarks

Chairperson: FEDOTOV Andrey Acting Director of the Limnological Institute of the Siberian Branch of the Russian Academy of Sciences, Editor-in-Chief of the journal *“Limnology and Freshwater Biology”*.

9.40-11.00: Plenary lectures, 20 min each

Chairpersons: GONCHAROV Andrey & PATOVA Yelena

9.40-10.00

KIRILLOV Vladimir

Algae as a factor and indicator of environmental safety in the multi-purpose use of surface waters.

10.00-10.20

KAMNEV Alexander

Algology of Russia in portraits — milestones of development.

10.20-10.40

LIKHOSHWAY Yelena

The Early Stages in the Formation and Development of Algological Research of Lake Baikal.

10.40-11.00

KUPCHINSKIY Alexander

Algae in the exposition of the Baikal Museum of the Siberian Branch of the Russian Academy of Sciences (SB RAS).

Coffee break 11.00-11.30

11.30-13.30: Current issues of algology.

Oral reports, 15 min each

Chairpersons: GUSEV Evgeniy & GAYSINA Lira

11.30-11.45

ZHU Tao

Distinctive and novel genomic features of cyanophages infecting freshwater filamentous cyanobacteria.

Tuesday, September 8

- 11.45-12.00** **LUO Quan**
Compatible solutes in cyanobacteria: biotechnological application and metabolic regulatory basis.
- 12.00-12.15** **YANG Jun**
Precision monitoring and scientific management of invasive and toxic cyanobacteria: a case study of *Raphidiopsis raciborskii*.
- 12.15-12.30** **CHOPRA Vivek**
Algal assemblages and radiocarbon dating–based reconstruction of paleolimnological conditions in the Yamuna River, Delhi
- 12.30-12.45** **SHARAGINA Yekaterina**
Assessment of Water Quality in Some Heterogeneous Waterbodies of the Middle Volga Basin Using the Functional Classification of Phytoplankton.
- 12.45-13.00** **SYSOVA Elena**
Application of modelling and artificial intelligence in hydrobiological research.
- 13.00-13.15** **AFANAS'YEV Dmitry**
Prospects for the advancement of the floristic classification of submerged macroscopic vegetation of the Black and Azov Seas
- 13.15-13.30** **GONCHAROV Andrey**
Current state of the taxonomy of desmid algae (Desmidiaceae, Zygnematophyceae).

Lunch on your own 13.30-14.30

14.30-15.45: Current issues of algology (continued)

Oral reports, 15 min each

Chairpersons: ABDULLIN Shamil & NEVROVA Elena

- 14.30-14.45** **BEDOSHVILI Yekaterina**
Contribution of the microtubule center and gamma-tubulin to silica frustule morphogenesis in diatoms exhibiting varied symmetry types.
- 14.45-15.00** **KULIKOVSKIY Maxim**
Cryptic diversity in diatoms.
- 15.00-15.15** **ZAKHAROVA Yulia**
Interactions of diatoms and bacteria from Lake Baikal.
- 15.15-15.30** **TEMRALEEVA Anna**
Metagenome-assembled genomes of non-axenic cyanobacteria: taxonomy, functional potential, and selection of promising strains for agrobiotechnology
- 15.30-15.45** **BELYKH Olga**
Cyanobacteria as producers of biologically active compounds in Lake Baikal.

Tuesday, September 8

15.45-17.00: Algal diversity in geographically distant and ecologically diverse waterbodies

Oral reports, 15 min each

Chairpersons: MITROFANOVA Elena & KULIZIN Pavel

15.45-16.00 SHYROYAN Armine

Diatoms in the epiphyton of *Ellisolandia elongata* (Rhodophyta) in the coastal waters of Cape Martyan (Crimea, Black Sea).

16.00-16.15 KOPYRINA Lubov'

Taxonomic composition of the phytoperiphyton of Yakutia

16.15-16.30 GUSEV Evgeniy

Разнообразие золотистых водорослей тропического региона.

16.30-16.45 KAPUSTIN Dmitry & KULIKOVSKIY Maxim

Chrysophytes in the Moscow region: current level of study.

16.45-17.00 BESSUDOVA Anna

Species richness and distribution patterns of scaled chrysophytes in waterbodies of Eastern Siberia.

17.00-17.30: Round Table 1. Information on All-Russian and International Conferences on Algology held in 2026

Oral reports, 10 min each

Chairpersons: MAL'TSEVA Irina & KAMNEV Alexander

17.00-17.10 VODENEEVA Yekaterina & GAISINA Lira

International Conference on Algal and Cyanobacterial Biology - ICACB-2026, Banaras Hindu University, Varanasi, India, February 17-23, 2026.

17.10-17.20 KAPUSTIN Dmitry & BESSUDOVA Anna

11-th International Chrysophyte Symposium. Korea, June 23–27, 2026.

17.20-17.30 TEMRALEEVA Anna

The 6th International School and Conference "Cyanoprokaryotes and Cyanobacteria: Their Distribution and Use in Biotechnology". 15–18 June 2026. Moscow, Pushchino.

Break 10 min

Tuesday, September 8

Large Conference Hall, Small Conference Hall, Lobby

17.40-18.40 **Poster sessions**

Oral commentary near the poster (duration: 3–5 min)

Large Conference Hall

Poster session 1

Chairpersons: GUSEV Evgeniy, SOROKOVIKOVA Yekaterina & NIKULIN Artur

1. **BUKHCHULUUN Tsegmid.** Diatom diversity and community of Ugii Nuur Lake, Mongolia.
2. **RENGANATHAN Prabhakaran.** Duration-dependent effects of macroalgal biostimulant seed priming on germination kinetics and seedling vigor in tomato (*Solanum lycopersicum*).
3. **LUO Quan.** Compatible solutes in cyanobacteria: biotechnological application and metabolic regulatory basis.
4. **CHEN Huihuang.** Climate-driven decline in water level causes earlier onset of hypoxia in a subtropical reservoir.
5. **BOGDANOVA Alexandra.** The structure of the order Ceramiales inferred from morphological and molecular evidence.
6. **BOLDINA Olga.** Algal symbionts of *Rana temporaria*.
7. **GORBUNOVA Svetlana.** Automated control system for the growth of lower phototrophic organisms.
8. **DOROKHOVA Marina.** Soil algae and cyanobacterial communities in children's playground areas of southeastern Moscow.
9. **KALUZHNYAYA Olga.** Analysis of the genome of a *Synechococcus* picocyanobacterium isolated from Lake Baikal.
10. **MAL'TSEVA Svetlana.** Impact of graded nitrogen deprivation on the metabolic activity of the *Aliinostoc* strain.
11. **TIKHONOVA Irina.** Cyanobacteria-associated microbial communities in environmental samples and non-axenic cultures obtained from Lake Baikal.
12. **POTAPOV Sergey & BELYKH Olga.** Viruses of eukaryotic algae in Lake Baikal identified by metagenomics.
13. **FIRSOVA Alyena.** Diversity of stomatocysts of chrysophytes in Eastern Siberia.

Tuesday, September 8

Small Conference Hall

Poster session 2

Oral commentary near the poster (duration: 3–5 min)

Chairpersons: BEDOSHVILI Yekaterina, SYSOVA Elena & LYAKH Anton

14. **ANISIMOVA Olga.** Desmids (*Zygnematophyceae*, order *Desmidiales*) in the spaceflight environment.
15. **BASHENKHAIEVA Maria.** Comparative assessment of genetic markers for analyzing microalgal assemblages in Lake Baikal.
16. **BESSUDOVA Anna.** Diversity of scaled chrysophytes in the Angara cascade reservoirs.
17. **ZAKHAROVA Yulia.** Phytoplankton and microphytobenthos composition in Lake Baikal's littoral zones under to local anthropogenic stress.
18. **KULIZIN Pavel.** Cryptic diversity of *Micrasterias mahabuleshwariensis* (Desmidiales, Zygnematophyceae).
19. **MITROFANOVA Elena.** Stomatocysts of chrysophytes from satellite water bodies: donors or recipients for the phytoplankton of a deep lake during the flood period?
20. **PETROVA Darya.** Spring-time genetic differentiation among *Ulnaria acus* populations in Lake Baikal.
21. **POLYAKOVA Svetlana.** Life-cycle-related domoic acid synthesis: evidence from *Pseudo-nitzschia delicatissima* (Cleve) Heiden.
22. **RODIONOVA Yelena & SHERBAKOVA Tatyana.** The genus *Gyrosigma* (Bacillariophyta) in Lake Baikal.
23. **SELIVANOVA Yelena & SNARSKAYA Dina.** New data from molecular phylogenetic analysis of green halophilic microalgae from the CALU culture collection.
24. **SLASTINA Yulia.** Variations in phytoplankton across heterogeneous lakes of the Onega Lake basin associated with rainbow trout aquaculture.
25. **SNARSKAYA Dina.** Cultivated cyanobacteria from the Crimean coastal zone.
26. **TANICHEV Andrey.** Culturing flagellate Protists sampled from the Angara cascade reservoirs.
27. **CHELYADINA Natalya.** Phytoplankton regional features in the vicinity of mussel–oyster aquaculture farms on the Crimean Black Sea coast.
28. **SHINKARENKO Antonina.** Spatial and vertical variability of phytoplankton communities in Balaklava Bay, Black Sea.

Tuesday, September 8

Lobby of the Pribaikalskaya Hotel

Poster session 3

Competition for the Best Poster among undergraduates and PhD-students

Oral commentary near the poster (duration: 3–5 min)

Chairpersons: PETROVA Darya, CHUDAEV Dmitry & NIKULIN Vyacheslav

29. **BUVAEVA Vasilisa & SHIRSHOVA Valentina.** Dominant phytoplankton species of the Bratsk and Ust-Ilimsk reservoirs during the summer of 2024.
30. **GLUSHKO Polina.** Spatial distribution of diatom phytoplankton within the river-to-sea systems around Greater Sochi in the autumn and winter of **2025–2026**.
31. **GUTNIK Darya.** A model for generating synthetic metagenomic data with a controlled correlation structure: a method for validating pipelines of statistical analysis of interactions within microbial communities.
32. **MIRONOVA Elina.** Genetic diversity of cyanobacterial endosymbionts of diatom algae belonging to the order Rhopalodiales.
33. **NAZAROV Jovidon.** A study of the biodiversity of terrestrial algae and cyanobacteria in the Ramit State Natural Reserve (Tajikistan).
34. **ORLOVA Anastasiya.** Ultrastructure of the *Lindavia baicalensis* cell from a natural population of Lake Baikal.
35. **PODUNAY Elizaveta.** Characteristics of sexual reproduction and life cycle of *Neosynedra delicatissima* (Bacillariophyta).
36. **SIMONENKO Oxana.** Initial findings on the cyanobacteria inhabiting the coastal area of Lake Otradnoe in the vicinity of the research station of the Komarov Botanical Institute, RAS.
37. **TARASSOVA Anna.** Comprehensive study of diatoms of the genus *Pseudo-nitzschia* from the South China Sea (Vietnam): morphology, molecular data, and toxic potential.
38. **TYURNEV Ivan.** Comparative analysis of classical and instrumental methods for phytoplankton monitoring: a case study of Lake Baikal.
39. **KHMEL'NITSKAYA Maria.** The concept of the genus *Nodosilinea* (Nodosilineales, *Cyanobacteria*): a comprehensive characterization and a key for species identification.
40. **SHCHUKINA Maria.** River continuum or habitat heterogeneity? Comparative analysis of eukaryotic phytoplankton in the Volga River using metabarcoding.

18.45

PHOTOGRAPHING

19.00-21.00

WELCOME RECEPTION

Wednesday, September 9

9.00-11.00: Phytoplankton in water bodies of different types: species assemblage and indicator properties

Oral reports, 15 min each

Chairpersons: KIRILLOV Vladimir & BESSUDOVA Anna

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|--------------------|--|
| 9.00-9.15 | PATOVA Yelena
Phytoplankton communities as an indicator of the state of lakes in the Polar Urals under conditions of a changing climate and increasing anthropogenic load. |
| 9.15-9.30 | SLASTINA Yulia
Composition and abundance of phytoplankton in the Vygzero-Onda Reservoir against the varying anthropogenic load. |
| 9.30-9.45 | PRIIMAK Anastasiya
Assemblages of the phytoplankton in the water areas hosting marine farms (Black Sea). |
| 9.45-10.00 | VOYAKINA Yekaterina
Phytoplankton in the coastal zone of Lake Ladoga near the Valaam Archipelago. |
| 10.00-10.15 | BELYAEVA Polina
Assemblages of the phytoplankton of the Votkinsk Reservoir in 2020–2025 годах. |
| 10.15-10.30 | MIKHAILOV Ivan
Patterns of co-occurrence among microeukaryotes in Lake Baikal in spring. |
| 10.30-10.45 | MITROFANOVA Elena
Features of under-ice algal vegetation in the plankton of deep cold-water lakes |
| 10.45-11.00 | VODENEEVA Yekaterina
Characteristics of under-ice phytoplankton growth in a floodplain reservoir across varying winter conditions (Middle Volga River basin). |

Coffee break 11.00-11.30

Wednesday, September 9

11.30-13.30: Cyanobacteria and algae within natural communities: Recent findings

Oral reports, 15 min each

Chairpersons: BELYKH Olga & DAVYDOV Denis

- 11.30-11.45** **AVERINA Svetlana**
Description and characterization of novel *Leptolyngbya*-like cyanobacterial taxa.
- 11.45-12.00** **SMIRNOVA Svetlana & SPIRIDONOVA Yelizaveta**
Cyanobacteria within deep-water algal communities in continental waterbodies of the Bunger Oasis, East Antarctica.
- 12.00-12.15** **GORIN Kirill**
Cyanobacteria in coastal habitats of the eastern part of the Gulf of Finland, Baltic Sea.
- 12.15-12.30** **STARTSEVA Natalya**
Cyanobacterial dynamics within the planktothrix complex in a dying lake: a case study of Lake Beloe Kosinskoe (Moscow).
- 12.30-12.45** **SOROKOVIKOVA Yekaterina**
New species of benthic cyanobacteria in Lake Baikal: a polyphasic and genomic methods for taxonomy.
- 12.45-13.00** **NIKULIN Artur**
Findings of cyanobacteria and algae on architectural constructed surfaces in Vladivostok: new records for Russia and the Russian Far East.
- 13.00-13.15** **EGOROVA Irina**
Algae of the genus *Nautococcus* (Chlorophyceae, Chlorophyta) and their representative from the Baikal region.
- 13.15-13.30** **NOVAKOVSKAYA Irina**
Coelastrrella ferroedaphica sp. nov. (Chlorophyta, Scenedesmaceae) isolated from soils of the Northern Urals.

Lunch on your own 13.30-14.30

14.30-15.45: Cyanobacteria and algae within natural communities: Recent findings (continued)

Oral reports, 15 min each

Chairpersons: VODENEEVA Yekaterina & KAPUSTIN Dmitry

- 14.30–14.45** **NIKULIN Vyacheslav**
New records of *Coelastrrella* species in the Russian Far East.
- 14.45–15.00** **GLUSHCHENKO Anton**
The genus *Cymbosellaphora* (Bacillariophyceae, Cymbellales) in Kamchatka: first records
- 15.00–15.15** **MAKEEVA Evgenia**
Mesohaline diatom species in the freshwater Lake Itkul (Khakassia).
- 15.15–15.30** **NEVROVA Elena**
Molecular phylogenetic and morphological analysis of *Nitzschia* sp. (Bacillariophyta) (Black Sea, Crimea).

Wednesday, September 9

- 15.30–15.45** **MARTYNENKO Nikita**
Phylogenetic position of the genus *Euastridium* on the Desmidiaceae tree (Zygnematophyceae, Streptophyta).
- 15.45–16.00** **PODUNAY Yulia**
Diversity of algae in inland water bodies of the Republic of Djibouti based on integrated morphological and molecular genetic studies.

16.00-17.15: Life cycle, molecular phylogeny

Oral reports, 15 min each

Chairpersons: KULIKOVSKY Maxim & BEDOSHVILI Yekaterina

- 16.00-16.15** **MARCHENKOV Artem**
Variability in the uniparental mitochondrial inheritance pattern in the freshwater pennate diatom *Ulnaria acus*.
- 16.15–16.30** **DAVIDOVICH Nikolai**
Why *Nitzschia longissima* does not belong in *Nitzschia*: the compelling case from integrative taxonomy.
- 16.30–16.45** **POLYAKOVA Svetlana**
Intra- and interpopulation reproductive compatibility of strains of the extremophilic species *Navicula gregaria* Donkin.
- 16.45–17.00** **DAVIDOVICH Olga**
Evolutionary divergence of the sexual process in representatives of the genus *Haslea*.
- 17.00–17.15** **TSEPLIK Natalia**
Phylogeny and morphology of some monoraphid diatoms from The Asian region.
- 17.15–17.30** **LYAKH Anton**
Simulation modelling of the life cycle of diatom microalgae.

Break 15 min

17.45-19.00: Round Table 2. On the development of Russian scientific journals

Oral talks, 10-15 min each, and participation in the discussion

Chairpersons: AFANAS'EV DMITRY & LIKHOSHWAY Yelena

- **KAMNEV Alexander** Editor-in-Chief. About the journal “*Issues of Modern Algology*”.
- **MATSYURA Alexander** Editor-in-Chief. History and development direction of the journal “*Acta Biologica Sibirica*”.
- **KORNIYCHUK Yulia** Executive Secretary of the Editorial Board. “*Marine Biological Journal*”: a Russian platform for international science (remote presentation).
- **FEDOTOV Andrey** Editor-in-Chief of the journal “*Limnology and Freshwater Biology*”.
- **KULIKOVSKIY Maxim** Editor of the journal “*Botanical Journal*” responsible for the “Algae” section of the journal “*Novosti Sistematiki Nizshikh Rasteniy*”.
- **KAPUSTIN Dmitry** Editor of the journals “*Phytokeys*”, “*Phytotaxa*”, & “*Novosti Sistematiki Nizshikh Rasteniy*”

Thursday, September 10

9.00-11.00: Biotechnological potential and practical applications of cyanobacteria and algae

Oral reports, 15 min each

Chairpersons: PATOVA Yelena & MAL'TSEV Evgeny

- 9.00–9.15** **ABDULLIN Shamil**
Cyanobacterial and algal communities on architectural structures in urban ecosystems of the southern Russian Far East: biodiversity, dynamics, and applied aspects.
- 9.15–9.30** **DAVYDOV Denis**
Biotechnological potential of cyanobacteria from technogenic deposits in the Murmansk Region.
- 9.30–9.45** **BACHURA Yulia & NOVIKOVA Alena**
Study of the agrobiotechnological potential of soil algae and cyanobacteria in the Gomel Region.
- 9.45–10.00** **GALIEVA Gulnaz**
Role of temperature acclimation in modulating physiological and biochemical parameters and thermal tolerance in green microalgae.
- 10.00-10.15** **STUKOLOVA Irina**
Bioconcentration — an important branch of algology.
- 10.15–10.30** **GAYSINA Lira**
Prospects for using algae and cyanobacteria in hydroponic systems.
- 10.30–10.45** **SUSHCHENKO Reseda**
Rapid diagnostics of stimulating activity of algae and cyanobacteria during hydroponic cultivation of watercress.
- 10.45–11.00** **CHUDAEV Dmitry & BLAGOVESHCHENSKAYA Ekaterina**
Stratification of the freshwater benthic diatom community under experimental conditions.

Coffee break 11.00-11.30

11.30-13.15: Cultivation of cyanobacteria and microalgae, biologically active substances

Oral reports, 15 min each

Chairpersons: ZAKHAROVA Yulia & DAVIDOVICH Nikolai

- 11.30–11.45** **RODINA Oksana** Physiological characteristics of *Synechococcus* sp. and *Lyngbya aeruginosa* f. *minor* strains cultivated under carbonate formation conditions.
- 11.45–12.00** **MALTSEV Evgeny**
Effect of stepwise changes in nitrogen and phosphorus concentrations in the nutrient medium on metabolism of microalgae.
- 12.00–12.15** **MANSUROVA Irina**
Study of the effect of light intensity on the growth of the carotenogenic microalga *Coelastrella rubescens* IBSS-156 at the vegetative cultivation stage.

Thursday, September 10

- 12.15–12.30** **KRIVOVA Zinaida**
Effect of different nitrogen concentrations on fatty acid profiles of the *Anabaena* sp. strain.
- 12.30–12.45** **ZHELEZNOVA Svetlana**
Intensification of eicosapentaenoic acid photobiosynthesis in *Porphyridium purpureum* (Bory) Ross culture under vortex mixing.
- 12.45–13.00** **SIDOROV Roman**
“Dissimilar twins”: unique positional specificity of triacylglycerol structure in oil-producing yellow-green and eustigmatophyte microalgae from the IPPAS collection.
- 13.00–13.15** **MALTSEVA Irina**
Alpha-tocopherol biosynthesis in microalgae: from phylogenetic patterns to biotechnological prospects.
- 13.15–13.30** **AVSIYAN Anna**
Production characteristics of *Tetraselmis viridis* under natural light conditions with different carbon supply.

Lunch on your own 13.30–14.30

14.30–16.15: Modern methods for monitoring the taxonomic diversity of algae.

Molecular genetic analysis and metabarcoding

Oral reports, 15 min each

Chairpersons: TEMRALEEVA Anna & GUSEV Evgeniy

- 14.30–14.45** **Xi LI**
Gene Transcript *16S/18S rRNA* Dynamics for Predicting Harmful Algae Blooms in Freshwaters.
- 14.45–15.00** **Wenjing ZHANG**
The diversity and biogeography of abundant and rare intertidal marine microeukaryotes explained by environment and dispersal limitation.
- 15.00–15.15** **KULIZIN Pavel**
Assessment of phytoplankton algal diversity in lakes of different types within the Middle Volga basin using metabarcoding.
- 15.15–15.30** **GALACHYANTS Yuriy**
Microeukaryote communities in the reservoirs of the Angara Cascade in 2024 based on metabarcoding data.
- 15.30–15.45** **MINCHEVA Elena**
Metabarcoding study of macrophyte algae in Lake Baikal.
- 15.45–16.00** **SELIVANOVA Elena**
Taxonomic diversity and community structure of microalgae in hypersaline water bodies based on multi-marker DNA metabarcoding results.
- 16.00–16.15** **KEZLYA Elena**
Determination of 18S rRNA gene copy number using droplet digital PCR in some marine diatoms.

Thursday, September 10

16.15-17.15: Competition for the best oral presentation among undergraduates and PhD- students

Short, 5 min, oral presentations

Chairpersons: MITROFANOVA Elena, GALIEVA Gulnaz & CHUDAEV Dmitry

- 16.15–16.20 KURBANOVA Lidia**
Epiphytic diatoms of Avacha Bay (Starichkov Island, Vilyuchinskaya Bay)
- 16.20–16.25 KORNILOVA Polina**
Diatom algae of spring temporary water bodies in the Tomilinsky Forest Park (Moscow Oblast).
- 16.25–16.30 MURAVYEVA Anastasia**
Two new species of the genus *Stricosus* (Ulnariaceae) from the South China Sea (Lishon Island, Vietnam): morphology and molecular data.
- 16.30–16.35 MIRONOV Andrei**
Integrative approach to the phylogeny analysis of the family Pinnulariaceae (Bacillariophyceae).
- 16.35–16.40 SELEZNEVA Anna**
Effects of different nitrogen concentrations in the nutrient medium on growth, pigment composition, and fatty acids of diatoms.
- 16.40–16.45 SMIRNOVA Valeria**
Taxonomic structure of the algal community of Lake Onega.
- 16.45–16.50 SHCHUKINA Maria**
Isolation of new predatory protist strains and their grazing on toxic and non-toxic strains of *Microcystis aeruginosa* associated with harmful algal blooms.
- 16.50–16.55 NEVZOROVA Yulia**
Biotechnological method to stabilizing nepheline sands using cyanobacteria and synthetic materials.
- 16.55–17.00 KHLAZHETDINOVA Liliya**
Study of growth-stimulating activity of algae and cyanobacteria in basil (*Ocimum basilicum* L.) cultivation using hydroponic systems.
- 17.00–17.05 MUFAZALOVA Alfiya**
Use of algae and cyanobacteria as biostimulants in bell pepper cultivation under hydroponic conditions.
- 17.05–17.10 LYSOVA Ekaterina**
Strategy for intensifying alpha-tocopherol production by microalgae: combined effect of carbon dioxide and sodium bicarbonate in batch culture.
- 17.10–17.15 MAKHMUTOV Almaz**
Operating principle of the innovative “Algolamp” device.
- Break 10 min**

Thursday, September 10

17.30-19.00: REVIEW OF THE CONFERENCE OUTCOMES

Chairpersons: LIKHOSHWAY Yelena & BELYKH Olga

1. Statistical data on the Conference outcomes.
2. Awarding the winners of the oral presentation and poster contests among undergraduates and PhD-students.
3. Adoption of the Conference resolution.
4. Selection of the venue for the 9th All-Russian Scientific Conference with international participation “Algae: Problems of Taxonomy and Ecology, Use in Monitoring and Biotechnology”.
5. Decision to establish the All-Russian Algological Society (AAS).

Friday, September 11

Excursions:

- **Boating tour on Baikal**
- **Show with Baikal seals**

19.00 – CLOSING OF THE CONFERENCE

Correspondence participation

1. **ABRAMOVA Ksenia**. Diversity of cyanobacteria in water bodies of Kazan (Republic of Tatarstan).
2. **BONDARENKO Nina**. Analysis of the current state of the phytoplankton of Lake Baikal.
3. **CHERKASHINA Svetlana**. Growth characteristics of the soil strain *Chlorococcum oleofaciens* under different cultivation conditions.
4. **DANTSYUK Natalia**. Collection of live cultures of carotenogenic microalgae at the FRC IBSS: enrichment and biotechnological potential of new strains.
5. **DMITRIEVA Olga**. Spatial distribution of summer phytoplankton communities in the Vislin Lagoon of the Baltic Sea in July 2023–2025.
6. **DMITRIEVA Olga**. Occurrence and spatial distribution of diatom algae atypical for the southeastern part of the Baltic Sea.
7. **EGORKIN Alexander**. Application of artificial intelligence technologies as an element of improving the methodology for environmental monitoring of the Black Sea water area.
8. **GEVORGIZ Ruslan**. Mixing cultures of microalgae and cyanobacteria (from laboratory to industrial scales).
9. **KAL'CHENKO Yelena**. Kelp algae of Kamchatka as a source of polyunsaturated fatty acids for aquaculture.
10. **KARPAEVA Anastasiya**. Interrelation of phytoplankton quantitative growth with environmental factors in lakes of different trophic status in the Belarusian Lake District.
11. **KHLEBOVA Darya**. Microalgae as potential agents for carbon sequestration: assessing the efficiency of laboratory and natural strains.
12. **KIRIENKO Yekaterina**. Effect of light spectral composition on extracellular marenin accumulation in cultures of *Haslea karadagensis* (Bacillariophyta).
13. **KOCHUBEY Anzhelika**. Pigment composition of the soil strain *Bracteacoccus* sp. MZ CH-42 under different cultivation conditions.
14. **KOKSHAROVA Olga**. Non-protein amino acids as allelopathic tools for photosynthesis regulation.
15. **KONONENKO Galina & BURKIN Alexey**. Biologically active metabolites of micromycetes in two species of helophytes of the Typhaceae family.
16. **KORNIYCHUK Yulia**. “Marine Biological Journal”: a Russian platform for international science.
17. **KRIVENKO Valentina**. Distribution and ecology of microalgae of the genus *Chlorella*.
18. **KRIVINA Elena**. New records of *Coelastrella* species (Chlorophyta) in tundra soils of Duvanny Yar (Yakutia): species diversity and biotechnological potential.
19. **KRUPNOVA Tatiana & MALASHENKO Alexander**. Cultivation of macrophytes in the Far East: current state and development prospects.
20. **KUKLIN Alexey**. Freshwater macroscopic algae of aquatic ecosystems in the Trans-Baikal Territory.
21. **MAKARENKOVA Nadezhda**. Functional structure of phytoplankton in a small river within an urbanized area (case study of the Sodema River, Vologda Oblast).
22. **MELNIK Anastasia**. Spatial distribution of zooplankton during summer cyanobacterial bloom in the southeastern part of the Baltic Sea in 2018.

23. **PETROV Vladimir.** Distribution patterns of *Conticribra weissflogii* (Bacillariophyta) in Belarus.
 24. **RED'KINA Vera.** Terrestrial phototrophic biofilms on artificial substrates: diversity of cyanobacteria and microalgae in a small-town environment (Pushchino urban district).
 25. **RUSANOV Alexander.** Effect of stream desiccation on the taxonomic and functional composition of periphytic diatoms in small rivers.
 26. **SELEZNEV Vladimir.** Impact of global warming on cyanobacterial development in freshwater bodies.
 27. **SHISHLYANNIKOVA Arina & ZMITROVICH Ivan.** The aerophytic alga *Trentepohlia umbrina* in forest ecosystems: *Terra incognita*.
 28. **SIZOVA Liliya.** Distribution and ecology of microalgae of the genus *Coelastrella*.
 29. **SOLOMONOVA Ekaterina.** Comparative resistance and bioremediation potential of microalgae *Tetraselmis viridis* and *Dunaliella salina* under glyphosate contamination depending on light conditions.
 30. **STANISLAVSKAYA Yelena.** Long-term studies of epiphyton in Lake Krasnoe (Leningrad Oblast).
 31. **STRUCHKINA Darya.** Study of phytoplankton in lakes of different types in the North-Western Ladoga region.
 32. **SVIRID Anna & BOGDANOVICH Marina.** Dominant diatom species of the epiphyton in the Gaina River (Minsk Upland).
 33. **TARASHOVSKAYA Yelena.** Study of the phytoplankton community structure in the eastern part of the Gulf of Finland, Baltic Sea.
 34. **TARASOVA Natalia.** Phytoplankton of the Krivaya Bolda branch (free-flowing Volga).
 35. **TERENTIEV Alexander.** Development level of *Phyllophora* on various substrates in the Dzharlgach Bay of the Black Sea.
 36. **SHOMAN Natalia.** Long-term effects of zinc oxide nanoparticles on the Black Sea phytoplankton during the autumn period.
 37. **VINOKUROVA Galina.** Winter phytoplankton of the Novosibirsk Reservoir.
 38. **VOLODINA Alexandra.** Macroalgae of inland water bodies in the Kaliningrad Region.
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