



Komarov Botanical Institute of Russian Academy of Sciences (BIN RAS)

Council of Young Scientists of BIN RAS

Scientific Educational Center of BIN RAS

Russian Botanical Society

Saint-Petersburg Mycological Society

**The IV (XII) International Botanical Conference
of Young Scientists in Saint-Petersburg
April 22nd—28th, 2018**

SECOND CIRCULAR

Organizing Committee:

Dr. Dmitry Geltman, Director of BIN RAS (Chairman of the Conference);

Dr. Sergey Volobuev (Vice-Chairman); Artyom Leostrin (Secretary)

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Grigory Tyusov
Dr. Elena Tyutereva
Dr. Roman Ufimov
Dr. Maria Vinogradskaya
Alexandra Volchanskaya
Dr. Olga Voronova

Preliminary program of the Conference

April, 22nd — Arrival and registration of participants. Bus excursions around Saint-Petersburg (optional).

April, 23rd — Opening Ceremony. Preliminary list of plenary lectures:

Dr. Dmitry Geltman (Komarov Botanical Institute RAS) «Modern trends in botany (impressions of the participant of the XIX International Botanical Congress (Shenzhen, China, 2017))»

Dr. Elena Voronina (Moscow State University) «Getting at the roots: how we consider the nature of mycorrhizal symbiosis and what we are up to elucidate»

Dr. Olga Voitsekhovskaya (Komarov Botanical Institute RAS) «Protection of the photosynthetic apparatus from excess light: an evolutionary view»

Dr. Maxim Bobrovsky (Institute of Physicochemical and Biological Problems of Soil Science RAS) «Historical ecology. Application in the phytosociology»

Dr. Dmitry Vlasov (Saint-Petersburg State University, Komarov Botanical Institute RAS) «Fungi of extreme habitats»

Dr. Alexander Sennikov (University of Helsinki, Komarov Botanical Institute RAS) «Modern nomenclature for algae, fungi and plants: the results of work of the Nomenclature section of the XIX International Botanical Congress»

Yuri Kalugin (Komarov Botanical Institute RAS) «Botanical gardens as centers of biodiversity and educational activity»

April, 24th—26th — Sections.

Each session includes 30-min. long section talks (the list is presented below) which will be held by invited speakers as leading specialists, and 15-min. long talks presented by participants—young scientists. Sessions of several sections will be held simultaneously. The final program of the sessions will be compiled after the deadline for abstract submission in March, 2018 and will be presented in the 3rd Circular of the Conference.

Talks should be accompanied by multimedia presentation in the Microsoft PowerPoint format. **Poster session will not be held.** Languages of the conference are Russian and English. Participation in the conference only by correspondence is not permitted. Seminars will be held in the framework of the Conference (see the list below); seminars are open for all participants and include an illustrated speech by the Leader of Seminar and free discussions. Free excursions to greenhouses, to the park and to laboratories of the Komarov Botanical Institute RAS, as well as to the Botanical Museum BIN RAS will be offered for the participants after the sessions.

Section talks:

1. Systematics and phylogeny of vascular plants and bryophytes

Dr. Alexey Seregin (Moscow State University) «Digital herbarium of Moscow University: how it works»

Alexey Grebenjuk (Komarov Botanical Institute RAS) «Old collections and modern nomenclature»

Dr. Roman Ufimov (Komarov Botanical Institute RAS) «The issue of polyploid hybrids in systematics of 'difficult' taxa shown by the example of the genus *Crataegus* (*Rosaceae*)»

2. Mycology and lichenology

Dr. Ivan Zmitrovich (Komarov Botanical Institute RAS) «Phenomenon of *Oomycota*»

Dr. Anna Kiyashko (Komarov Botanical Institute RAS) «Experimental study of some aspects of macromycetes ecology»

Dr. Ekaterina Kuznetsova, Dmitry Himelbrant (Saint-Petersburg State University, Komarov Botanical Institute RAS) «Lichens in nature conservation»

Dr. Vera Malysheva, Dr. Ekaterina Malysheva (Komarov Botanical Institute RAS) «Mycoheterotrophy and myxotrophy: when fungi – hosts of plants»

Dr. Eugene Popov (Komarov Botanical Institute RAS) «Modern fungal nomenclature: specifics and current trends»

3. Algology

Dr. Ekaterina Voyakina (Scientific Research Centre for Ecological Safety RAS) «Investigation of cyanoprokaryotes and their metabolites in the reservoirs of Russia»

Dr. Roman Romanov (Central Siberian Botanical Garden SB RAS) «Charophytes (*Charales*, *Charophyceae*) of Russia and Central Asia: species diversity and regional features»

Svetlana Smirnova, Tatyana Safronova (Komarov Botanical Institute RAS) «Study of algae and cyanoprokaryotes in fresh waters of Antarctica in the season of the 62nd Russian Antarctic Expedition»

4. Plant anatomy and morphology

Dr. Ekaterina Kotina (University of Johannesburg) «Bark anatomy: methods and perspectives»

Dr. Nikolay Vislobokov (Moscow State University) «Variation of flower morphology on the example of representatives of the genus *Aspidistra* (*Asparagaceae*)»

5. Cell and molecular biology and metabolism of plants and fungi

Dr. Kirill Demchenko (Komarov Botanical Institute RAS) «Molecular-genetic mechanisms of the root systems branching»

Dr. *Vladimir Zhukov* (All-Russia Research Institute for Agricultural Microbiology) «Transcriptomics of plant-microbe symbiosis»

Dr. *Maria Lebedeva* (Saint-Petersburg State University) «The application of transgenic plants for basic research»

Dr. *Alexey Shavarda* (Komarov Botanical Institute RAS) «Metabolic networks and methods of their analysis»

6. Embryology and reproductive biology of plants

Dr. *Elena Andronova* (Komarov Botanical Institute RAS) «Reproductive biology and conservation of rare species of orchids (*Orchidaceae*) in Russia»

Dr. *Vladimir Brukhin* (Saint-Petersburg State University, Komarov Botanical Institute RAS) «Molecular genetic regulation of apomixis»

Dr. *Galina Vinogradova* (Komarov Botanical Institute RAS) «Female gametophyte of Angiosperms: polyvariance of the developmental programs»

7. Geobotany and plant ecology

Dr. *Nadezhda Matveyeva* (Komarov Botanical Institute RAS) «Species diversity of plant communities and its determining factors»

Dr. *Larisa Khanina* (Institute of Mathematical Problems of Biology RAS) «Estimations of succession status and species diversity of vegetation cover: numerical methods and modelling»

Dr. *Vadim Gorshkov* (Komarov Botanical Institute RAS) «Actual issues of ecology and vegetation cover studies: phenomena, processes and constants and their reflection in terminology»

Dr. *Denis Mirin* (Saint-Petersburg State University) «Parameters for decoding of remote sensing data of the seasonally and fluctuationally varying vegetation»

Dr. *Valentina Neshataeva* (Komarov Botanical Institute RAS) «Principles and methods of vegetation mapping»

8. Geography of vascular plants and bryophytes

Dr. *Natalya Reshetnikova* (Tsytsin Main Botanical Garden RAS) «The analysis of changes in vascular flora: an example of the Belogorye nature reserve»

Dr. *Yulia Vinogradova* (Tsytsin Main Botanical Garden RAS) «Invasive plants of Russia»

9. Palaeobotany

Dr. *Alexey Gomankov* (Komarov Botanical Institute RAS) «The origin of main groups of non-seed-bearing plants»

10. Economic botany

Dr. *Oleg Sozinov* (Yanka Kupala State University of Grodno), Dr. *Dmitry Grummo* (Kuprevich Institute of Experimental Botany) «Cartography in economic botany: results and prospects»

11. Plant conservation and environmental pollution

Dr. *Irina Lyanguzova* (Komarov Botanical Institute RAS) «Response of forest ecosystems to decreasing airtechnogenic pollution»

Dr. *Elena Volkova*, Dr. *Vladimir Khramtsov* (Komarov Botanical Institute RAS) «Monitoring of nature complexes on protected areas of Saint-Petersburg»

12. Introduction of plants

Dr. *Elena Arnautova* (Komarov Botanical Institute RAS) «The strategy defining for the development of greenhouse collections of botanical gardens»

Alexandra Volchanskaya (Komarov Botanical Institute RAS) «Principles for the acquisition of open ground collections of woody plants»

Dr. *Tatyana Gubanova*, *Valentina Brailko* (The Order of the Red Banner Nikita Botanical Gardens – National Scientific Center RAS) «Physiological aspects of frost resistance of winter-growing woody plants»

The methodic seminars:

- ✓ 'Methods of amplicon metagenomics in community ecology research'
- ✓ 'Modern nomenclature of algae, fungi and plants'
- ✓ 'Analysis of ecological data in R: package 'vegan''
- ✓ 'Modern methods of microscopy'
- ✓ 'The newest technologies of sequencing'
- ✓ 'Modern approaches to biodiversity data management'.

April, 27th — Excursions to Leningrad Region dedicated to its floristic, landscape and cultural peculiarities.

Preliminary price of one excursion is ca. 1500 rubles per person, including lunch. The duration of an excursion is ca. 12 hours including transportation. The third tour's time is shorter.

1) **Excursion to Gatchina City and Izhora Hills.** Gatchina City is an old city of Saint-Petersburg Province, housing summer residences of some of the former Russian Emperors and their relatives. During the excursion we plan to visit the Great Gatchina Palace, which was built using local limestone in the end of the 18th century, as well as to provide

botanical excursions to the ‘Zverinets’ Park and to the vicinities of Pudost village. During the botanical part of the tour, participants will be delighted to see early spring flowers in bloom (such as: *Gagea* spp., *Corydalis solida*, *Anemone* spp., *Daphne mezereum*, etc.) as well as special flora enriched by calcephilous species and by Central-European ones, the latter being brought to Gatchina environs with park grass mixes and during the World War II.

2) **Excursion to Staraya Ladoga and to Canyon of the Lava River.** In the past, Staraya Ladoga was one of the biggest cities of Ancient Novgorod Russia, dating back at least to 750s. One of main local showplaces is the Old Fortress, which has still saved the same appearance since the 9th—10th centuries. On the way, a small floristic excursion will be held in the Canyon of Lava River, which is famous for its limestone, fossils and calcephilous flora, and serves as a place for excursions for Saint-Petersburg botanists during the last 150 years.

3) **Excursion to Tzarskoye Selo (the city of Pushkin)** is a part of Saint-Petersburg World Heritage Site and represents a large palace with park ensemble constructed in the 18th—beginning of the 19th centuries. The Ekaterininskiy Park with marvelous Ekaterininskiy Palace is situated here, serving for a long time as a residence of Russian Emperors.

Registration fee

The registration fee for the participation in the Conference is:

- “EARLY” – **1200 rubles (RUR)** – if the abstract is submitted **before February 1st, 2018**, and the fee has to be paid **before February 10th, 2018**;
- “ORDINARY” – **1800 rubles (RUR)** – if the abstract is submitted **before March 1st, 2018**, and the fee has to be paid **before March 10th, 2018**.

“EARLY” = 1200 rubles (RUR)	“ORDINARY” = 1800 rubles (RUR)
Abstract submission deadline:	
1.2.2018	1.3.2018
The fee has to be paid before:	
10.2.2018	10.3.2018

Registration fee includes the Conference set, publications of the abstract, participation in the Conference sections, Opening and Closing Ceremonies, seminars and coffee breaks. Participation in bus excursions and the Conference dinner (optional) should be paid separately on the registration desk. Preliminary price of banquet is 1000 rubles.

Registration fee should be paid by wire transfer to the Card of Sberbank (карта Сбербанка) **No 5469 5500 2344 6799**, name of the proprietor – Lubov Alexandrovna Pushkareva (Любовь Александровна Пушкарёва).

For the confirmation of the payment of registration fee, it is required to send a scanned copy of the bank receipt as an attached **jpeg** or **pdf** file to e-mail of your section. In the letter please indicate your full name and name of your presentation. Do not throw receipt away.

Abstract submission

The abstracts should be submitted in the electronic form (.doc, .docx, .rtf) to e-mails, separate to each section (see the list below). Abstract submission should be completed by **March 1st**. The first authors of the abstracts should be students, PhD students, young scientists in the age of 35 or younger. The abstracts will be published after editing by section’ curators and only if registration fee is submitted timely. Therefore it is desirable to submit abstracts prior to payment of registration fee. The book of abstracts will be published before the opening ceremony.

1. *Systematics and phylogeny of vascular plants and bryophytes*: **mol2018.taxonomy@binran.ru** (section curators Dr. Nikolay Nosov, Dr. Roman Ufimov);
2. *Mycology and lichenology*: **mol2018.fungi@binran.ru** (section curators Dr. Sergey Volobuev, Dr. Lyudmila Gagarina);
3. *Algology*: **mol2018.algae@binran.ru** (section curators Svetlana Smirnova, Vera Stepanova);
4. *Plant anatomy and morphology*: **mol2018.anatomy@binran.ru** (section curators Yanina Pagoda, Dr. Anna Stepanova);
5. *Cell and molecular biology and metabolism of plants and fungi*: **mol2018.cellbio@binran.ru** (section curators Dr. Elena Ilina, Dr. Katerina Sazanova, Dr. Svetlana Senik, Dr. Elena Tyutereva, Dr. Maria Vinogradskaya);
6. *Embryology and reproductive biology of plants*: **mol2018.embryo@binran.ru** (section curator Lyubov Pushkareva);
7. *Geobotany and plant ecology*: **mol2018.geobot@binran.ru** (section curators Dr. Anton Korablev, Grigory Tyusov);
8. *Geography of vascular plants and bryophytes*: **mol2018.geography@binran.ru** (section curator Artyom Leostrin);
9. *Palaeobotany*: **mol2018.palaeobot@binran.ru** (section curator Anastasiya Gnilovskaya);
10. *Economic botany*: **mol2018.resources@binran.ru** (section curator Dr. Nataliya Petrova);

11. *Plant conservation and environmental pollution*: mol2018.protection@binran.ru (section curator Margarita Bondarenko);
12. *Introduction of plants*: mol2018.introduction@binran.ru (section curator Yuri Kalugin, Alexandra Volchanskaya).

Maximum abstract size – **2000 symbols** (space-bars included). Tables, illustrations and list of cited literature are not allowed. In the headline, please indicate in separate paragraphs: title of presentation, full name of author(s), full name of organization(s), city and country; e-mail.

Accommodation

Accommodation is planned in hotels of Saint-Petersburg of various comforts and various prices. Please, check these sources – <http://www.visit-petersburg.ru/en/stayplace/>, <http://www.booking.com>, etc.).

Conference' Agent for Accommodation — 'Peterburgskiye oteli' company (ООО «Петербургские отели»):
Tel.: +7800-333-7232, Fax: (812)448-6808, e-mail: info@hotellink.ru

If you need a formal invitation to the Conference, please inform us by e-mail mol2018@binran.ru and do not forget to indicate your name and other data. If you need a visa to enter Russia, you can contact with Conference' Agent for Accommodation or tourist agencies.

Contacts

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All enquires to the Organizing Committee should be done by this e-mail.

