



Komarov Botanical Institute of Russian Academy of Sciences,
Scientific Educational Center of Komarov Botanical Institute,
Council of Young Scientists of Komarov Botanical Institute,
Russian Botanical Society

III(XI) INTERNATIONAL BOTANICAL CONFERENCE OF YOUNG SCIENTISTS IN ST.-PETERSBURG

4–9 OCTOBER 2015

SECOND CIRCULAR

Organizing Committee:

Prof., Dr. V. Yarmishko, Director of Komarov Botanical Institute, Vice-President of the Russian Botanical Society (Chairman); Margarita Bondarenko, Dr. Lyudmila Gagarina, Anastasiya Gnilovskaya, Dr. Ekaterina Golovina, Dr. Petr Efimov (vice-chairman), Dr. Elena Ilina, Yuri Kalugin, Dr. Anton Korablev, Artyom Leostrin, Dr. Nina Medvedeva, Anton Pesterov, Dr. Olga Pesterova, Dr. Natalya Petrova, Dr. Svetlana Popova, Katerina Sazanova, Dr. Svetlana Senik, Svetlana Smirnova, Dr. Anna Stepanova, Dr. Elena Tyutereva, Dr. Galina Vinogradova, Dr. Sergey Volobuev, Dr. Olga Voronova.

III (XI) International Botanical Conference of Young Scientists will be held simultaneously with V Russian Geobotanical School-Conference. The registration of the participants (October, 4), opening ceremony (October, 5), excursions (October, 4 and 9) will be held mutually for the participants of both Conferences. Sessions (October, 6, 7 and 8) will be held separately: Conference of Young Scientists – in Komarov Botanical Institute, Geobotanical Conference and session «Geobotany» of the Conference of Young Scientists – in Saint-Petersburg State University.

Preliminary program of the Conference

October, 4

Arrival and registration of participants. Bus excursions over Saint-Petersburg (optional).

October, 5

Opening Ceremony (together with opening ceremony of V Russian Geobotanical School-Conference).

Preliminary list of plenary lectures:

- Dr. Dmitry Shchigel (Global Biodiversity Information Facility) and Dr. Roman Khalikov (Komarov Botanical Institute and Zoological Institute), «Biological data: resources and publications»
- Dr. Dmitry Geltman (Komarov Botanical Institute), «Komarov Botanical Institute: three centuries of its history»
- Dr. Vladimir Onipchenko (Moscow State University), «Achievements and perspectives of experimental synecology of plants»
- Dr. Evgeniya Bogomolova (Komarov Botanical Institute), «Microscopic biodestructive fungi in anthropogenic environment»
- Dr. Tatiana Yurkovskaya (Komarov Botanical Institute), «Vegetation on the Map of Russia »
- Dr. Yuri Novozhilov (Komarov Botanical Institute), «Biogeography of Amoeboid Protists (Myxomycetes = Eumycetozoa)»

Dr. Elena Arnautova (Komarov Botanical Institute), «Botanical Gardens: The Main Principles of completion and presentation of collections».

October, 6-8

Sessions.

Each session includes 30-min. long **session talks** (the list is presented below) which will be held by leading specialists from Komarov Botanical Institute and other institutions and 15-min. long **talks presented by Young Scientists**. Sessions of several sections will be going simultaneously. The final program of the sessions will be compiled after the deadline for submission of the materials in the beginning of September 2015 and it will be presented in 3rd circular of the Conference.

Talks should be accompanied by multimedia presentation in Microsoft PowerPoint format. **Poster session will not be held.** Languages of the conference – Russian and English. **Participation in the conference only by correspondence is not permitted.** Seminars will be held in the framework of the Conference (the list see below); Seminars are open for all participants and include an illustrated speech by the Leader of Seminar and free discussions.

Free excursions to greenhouses and to the park of Komarov Botanical Institute, as well as to Botanical Museum and Vavilov's Museum will be offered for the participants after the sessions. A banquet (optional) is planned at October, 8. The materials of the Conference will be published to the opening ceremony.

Session talks:

Systematics and phylogeny of vascular plants (*Traditional and molecular systematics. Evolution and phylogeny of vascular plants and mosses. Chromosome numbers*)

1. Dr. Alexandr Bobrov (Institute of Biology of Inland Waters), «Freshwater plants of Russia: problems and perspectives of their studies»
2. Dr. Maksim Nuraliev (Moscow State University), «The use of molecular and morphological traits in the systematics. The example of large genus *Schefflera* (Araliaceae, Apiales)»

Mycology and Lichenology (*Biodiversity. Evolution. Physiology. Genetics. Ecology. Plant pathogenic fungi. Endangered species and conservation*).

1. Dr. Margarita Bondartseva (Komarov Botanical Institute), «Establishment and development of mycology and lichenology in Komarov Botanical Institute»
2. Dr. Mikhail Zhurbenko (Komarov Botanical Institute), «Lichenicolous fungi: a review of the group and current state of investigations»
3. Dr. Irina Kirtsideli (Komarov Botanical Institute), «Geographical distribution of microscopic fungi in high latitudes»
4. Dr. Lyudmila Konoreva (Komarov Botanical Institute), «Organization experience of lichenological studies in different regions of Russia»
5. Dr. Vera Malysheva and Dr. Ekaterina Malysheva (Komarov Botanical Institute), «Ectomycorrhizal symbionts of *Pinus coraensis* and their role in the restoration of burned plant communities»
6. Dr. Olga Morozova (Komarov Botanical Institute), «A review of the current state of investigations in systematics and phylogeny of the *Entolomataceae* family»

Algology (*Floristics. Ecology. Physiology. Genetics. Biochemistry. Conservation*).

1. Dr. Maksim Kulikovskiy (Institute of Biology of Inland Waters), «Morphological and molecular approaches to the systematics of Diatoms: do contradictions exist?»
2. Dr. Alexey Desnitskiy (Saint-Petersburg State University), «Achievements in the study of evolution and ontogeny of cenobial volvocoid algae»

Plant anatomy and morphology (*Comparative and ecological issues*).

1. Dr. Yuri Gamaley (Komarov Botanical Institute), «Climatic adaptogenesis of vascular plants »

Cell and molecular biology and metabolism of plants and fungi (*Physiology and biochemistry. Developmental biology. Molecular genetics. Biotechnology. Interaction of plants, fungi and microorganisms Физиология*).

1. Dr. Kirill Demchenko (Komarov Botanical Institute), «Initiation of lateral root as a perspective model in the developmental biology»
2. Dr. Olga Voitshovskaya (Komarov Botanical Institute), «Supramolecular organisation of the tilakoid membrane»
3. Dr. Victor Tsyganov (Agricultural Microbiology Institute), «Cell mechanisms of the development of root nodules of Fabaceae»
4. Dr. Vladimir Zhukov (Agricultural Microbiology Institute), «Transcriptomics of nitrogen-fixing root nodules of *Pisum sativum*»
6. Dr. Maria Shishova (Saint-Petersburg State University), «Auxin receptors: myths and reality»
3. Dr. Vladislav Emelyanov (Saint-Petersburg State University), «Oxydation stress: the role of active forms of oxidants in destructive and signaling processes»
7. Dr. Alexey Shavarda (Komarov Botanical Institute), «Molecular resources of Plants and Fungi»

Embryology and reproductive biology of plants (*Morphogenesis of reproductive structures and regulation mechanisms, molecular genetic and hormonal control. Amphimixis and apomixis*).

1. Dr. Ivan Shamrov (Herzen Pedagogical State University), «Germ cells and sexual process in plants and animals»
2. Dr. Galina Titova (Komarov Botanical Institute), «The origin of the embryo in Monocots: facts and hypotheses»
3. Dr. Margarita Vishnyakova (Vavilov Research Institute of Plant Industry), «Evolution of structure-functional mechanisms of the reaction of self-incompatibility in Flowering Plants»

Geobotany (*Classification of vegetation. Structure and dynamics of plant communities. Geography and cartography of vegetation. Vegetation ecology*).

This session will be held within V Russian Geobotanical School-Conference in Saint-Petersburg State University.

Geography of vascular plants (*Floristics. Regional checklists and comparative floristic analyses. Geographic analysis of separate taxonomic groups of plants*).

1. Dr. Mikhail Knyasev (Botanical Garden of Ural Branch of Russian Academy of Sciences), «Grid mapping as a tool for the study of florogenesis»
2. Dr. Vladimir Fedosov (Moscow State University), «Main principles of the differentiation of bryoflora of North Holarctic»

Palaeobotany (*Palaeofloristics, evolution, biostratigraphy. Anatomy and systematics of fossil plants*).

1. Dr. Alexey Goman'kov (Komarov Botanical Institute), «Origin of main groups of Angiosperms according to palaeobotanical data »

Economic botany (*Plant resources. Ethnobotany. Biologically active substances of plants. Plant material used in industry and medicine*).

1. Dr. Lyudmila Muravnik (Komarov Botanical Institute), «Secretory structures as producers of biologically active substances»

Plant conservation and environmental pollution (*Bioindication. Monitoring. Research in protected areas. Dynamics of endangered species*).

1. Dr. Irina Ljanguzova (Komarov Botanical Institute), «Monitoring of heavy metals in forest ecosystems of Northern Taiga»
2. Dr. Nataliya Alekseeva-Popova (Komarov Botanical Institute), «Plant hyperaccumulators of heavy metals and phytoremediations of polluted soils»

Introduction of plants (*Open-air and greenhouse collections: theoretic and practical issues of introduction*).

1. Yuri Kalugin (Komarov Botanical Institute), «Ethnic exhibitions in botanical gardens».

Seminars:

1. «Modern methods of microscopy», leader Dr. Kirill Demchenko.
2. «New methods of sequencing», leader Dr. Mikhail Okun'.
3. «The use of Geoinformation Systems in Botany and Mycology», seminar will be held within V Russian Geobotanical School-Conference.

October, 9

Excursions over Leningrad Region dedicated to its floristic, landscape and cultural peculiarities. Preliminary price of one excursion is ca. 1500 rub per person, including lunch. The length of the excursions is ca. 12 hrs including transportation, excluding the last one, which is shorter. Participants of V Russian Geobotanical School-Conference are also welcome to the excursions.

1) **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 750th. One of main showplaces in it is The Old Fortress, which still has the same appearance which it obtained between IX and X 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 thermophilous flora, and serves as a place for excursions for Saint-Petersburg botanists for at least during the last 150 years.

2) **Excursion to Izhora Hills** will show numerous botanical, geological and landscape peculiarities, including calcephilous flora, spruce forests on limestone, springs, old quarries, temporary karst lake, traditional rural landscape. We will visit "Donso" wildlife sanctuary, where it will be likely possible to see endangered plants *Colchicum autumnale* and *Teucrium scordium* still in bloom. We also assume to visit a museum "The House of Stationmaster" which represents a survived post station of XVIII century with a group of buildings, yard, barn for horses and exhibition. An unusual war monument, representing a ruined village 'Bol'shoye Zarechye' destroyed in 1941-1945 will be also observed on the way, as well as a half-ruined church in Pyataya Gora village, built from the local limestone, and other architectural monuments.

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 XVIII – beginning of XX centuries. Here Ekaterininskiy Park with marvellous Ekaterininskiy Palace is situated, serving for a long time as a residence of Russian Emperors.

Registration fee

The registration fee for the participation in III (XI) International Botanical Conference of Young Scientists is:

early – 1000 rub. – if paid **before June, 1.**

late – 1500 rub. – if paid **after June, 1 and before August, 31.**

Registration fee has to be paid before August, 31 and accounts for the conference set, publications of the abstracts, participation in the Conference sessions, opening and closing Ceremonies, Seminars and coffee breaks. Participation in bus excursions and banquet (optional) should be paid separately during registration. Preliminary price of banquet is 1000 rub.

Registration fee should be paid by wire transfer to the **Card of Sberbank (карта Сбербанка) No 5469 5500 2680 7294** (name of the proprietor – Sergey Victorovich Volobuev (Сергей Викторович Волобуев)). Be careful during the payment.

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 mol2015@binran.ru before **August, 31**. Please denote your name in the subject of the letter, e.g. «receipt Johnson J.J.». In the letter please indicate your full name, name of your speech and name of the session. Do not throw receipt away.

Abstract submission

The abstracts should be submitted in the electronic form to e-mails, separate to every session (a list see below). Abstract submission should be completed by **August, 31**. The authors of the abstracts may be students, PhD students, young scientists in the age of 35 or younger. The abstracts will be published only after their examination by section' curators and only if registration fee will be submitted in time. Therefore it is desirable to submit abstracts prior to payment of registration fee.

Systematics and phylogeny of vascular plants : **mol2015.taxonomy@binran.ru** (session curator Dr. Petr Efimov);
Mycology and Lichenology: **mol2015.fungi@binran.ru** (session curators Dr. Sergey Volobuev, Dr. Lyudmila Gagarina);
Algology: **mol2015.algae@binran.ru** (session curator Svetlana Smirnova);
Plant anatomy and morphology: **mol2015.anatomy@binran.ru** (session curator Dr. Anna Stepanova);
Cell and molecular biology and metabolism of plants and fungi: **mol2015.cellbio@binran.ru** (session curators Dr. Elena Ilina, Dr. Elena Tyutereva, Katerina Sazanova);
Embryology and reproductive biology of plants: **mol2015.embryo@binran.ru** (session curator Dr. Galina Vinogradova);
Geobotany and plant ecology: **mol2015.geobot@binran.ru** (session curators Dr. Ekaterina Golovina, Dr. Anton Korablev).
Abstracts prepared by the young participants of V Russian Geobotanical School-Conference will be published in the materials of the III (XI) International Botanical Conference of Young Scientists, and issued in CD with abstracts of the participants of V Russian Geobotanical School-Conference as well;
Geography of vascular plants: **mol2015.geography@binran.ru** (session curator Artyom Leostrin);
Palaeobotany: **mol2015.palaeobot@binran.ru** (session curators Dr. Svetlana Popova, Anastasiya Gnilovskaya);
Economic botany: **mol2015.resources@binran.ru** (session curator Dr. Nataliya Petrova);
Plant conservation and environmental pollution: **mol2015.protection@binran.ru** (session curator Margarita Bondarenko);
Introduction of plants: **mol2015.introduction@binran.ru** (session curator Yuri Kalugin).

Maximum abstract size – **2000 symbols (space-bars included)**. Tables, illustrations and list of cited literature are not allowed. In the heading, please indicate in separate paragraphs name of speech, translation to Russian (if abstract is submitted in Russian, then translate its name to English), full name of author(s), full name of organization, city and country; e-mail.

Accommodation

Accommodation is planned in hotels of Saint-Petersburg of various comforts and various prices. **Conference' Agent for Accommodation – 'Peterburgskkiye oteli' company** (ООО «Петербургские отели»), contact person:

Olga Yudina (Ольга Юдина),
Tel.: +7800-333-3616, +7(812)331-7799;
Fax: (812)448-6808,
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If you need a formal invitation to the Conference, please inform us by e-mail **mol2015@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.

Organizing Committee address:

Komarov Botanical Institute of Russian Academy of Sciences
Prof. Popov str. 2,
197376, Saint-Petersburg, Russia

General questions about the Conference please forward to e-mail **molconf2012@binran.ru**,
questions concerning separate sessions – to separate e-mails of session's curators (see before).

Conference Website: **http://www.binran.ru/mol2015/**