



**IX INTERNATIONAL CONGRESS
“LOW AND SUPERLOW FIELDS AND RADIATIONS IN BIOLOGY AND MEDICINE”
dedicated to the 300th anniversary of Russian Academy of Sciences**

*In commemoration of Congress creator -
Lidia Nikolaevna Gall*

Dear Colleagues,

We invite you to take part in the IX International Congress “Low and super-low fields and radiation in biology and medicine”.

The Congress topics cover a wide range of research at the intersection of physics, biology and chemistry, concerned to the study of physical factors impact on a biological object: “low” indicates something located near the detection limit of modern experimental methods, and “superlow” – beyond the capabilities of direct measurement.

The Congress is dedicated to current areas of ecology, biology and medicine related to the study of superlow doses of chemical agents, low and superlow radiation and physical fields: electromagnetic, magnetic, gravitational and acoustic impact on biological objects, as well as the environmental and medical consequences of these effects.

Directions

1. Research, physical models and mechanisms of low factor action at molecular and cellular levels of the living system organization.
2. Low impacts at the organismal and population levels and the stability of life processes in the biosphere.
3. New non-medicinal technologies in medicine and veterinary.
4. Role of electromagnetic fields in the functioning of plants.

Format

The Congress is held in a hybrid format: in person and via videoconferencing.

Working languages of the Congress are Russian and English.

The authors of the best reports will receive an invitation to prepare scientific papers based on their materials in the journals “Agrophysics” and “Scientific Instrument Engineering”.

Dates

October 2-4, 2024

Organizers

- AFI
- IAP RAS
- Ministry of Education and Science of Russia
- St. Petersburg Branch of the Russian Academy of Sciences

Location

Agrophysical Research Institute
195220, Saint-Petersburg 14, Grazhdanskiy pr., Russia

Program Committee

Chesnokov Yuri Valentinovich, co-chairman, AFI (St. Petersburg)
Evstrapov Anatoly Aleksandrovich, co-chairman, IAP RAS (St. Petersburg)
Gall Nikolay Rostislavovich, vice-chairman, Ioffe Institute (St. Petersburg)
Arkhipov Mikhail Vadimovich, AFI (St. Petersburg)
Baryshev Mikhail Gennadievich, VNIIF (Moscow region)
Burlakov Alexander Borisovich, Lomonosov Moscow State University (Moscow)
Koltover Vitaly Kimovich, FRC PCP MC RAS (Chernogolovka)
Lobyshev Valentin Ivanovich, Lomonosov Moscow State University (Moscow)
Naumova Elena Valerievna, ISP SB RAS (Novosibirsk)
Panchelyuga Viktor Anatolyevich, ITEB RAS (Pushchino)
Panova Gayane Gennadievna, AFI (St. Petersburg)
Ryzhkina Irina Sergeevna, Arbuzov IOPC (Kazan)
Tekutskaya Elena Evgenievna, KubSU (Krasnodar)
Von Gratovsky Svetlana Vyacheslavovna, IRE RAS (Moscow)

Organising Committee

Gall Nikolay Rostislavovich, chairman
Kuleshova Tatiana Eduardovna, scientific secretary
Drozdov Andrey Vyacheslavovich
Kretinina Alexandra Vladimirovna
Kuleshov Denis Olegovich
Samsonova Natalya Sergeevna
Spiridonova Marina Vitalievna
Titov Yuri Alekseevich
Ezerina Elizaveta Mikhailovna

Registration

Application for participation in the Congress must be completed by filling out the [electronic registration](#) form on the website until **September 5** inclusive.

Presentation of abstracts

The abstract template can be downloaded from the Congress website.

Total volume of abstracts: **up to 3 pages**.

Abstract materials named after the speaker's last name (Author A.A.) must be sent to the Congress email congress-2024@internet.ru no later than **September 5**.

Organizational fee

	Participants	Students, graduate students
Early payment (until August 31, 2024)	2 500 rubles	1 000 rubles
Late payment (after September 1, 2024)	3 000 rubles	1 500 rubles

Payment details can be found on the Congress website. After payment, you must send a confirmation to the Organizing Committee's email.

Contacts

email: congress-2024@internet.ru

website: <https://www.agrophys.ru/Congress-2024>

Draft program of the IX International Congress “Low and super-low fields and radiation in biology and medicine”

02 October 2024 (Wednesday)

Registration of participants

Opening

Gall N.R. (Ioffe Institute) "The Contribution of Lidiya Nikolaevna Gall to Modern Theoretical Biophysics"

Plenary session

Preliminary list of speakers (alphabetically, the time of the report will be specified later).

Speaker	Organization	Title
Scholkmann Felix	University of Zurich	Biological auto luminescence (ultra-weak photon emission): involved in biological regulatory processes?
Burlakov A.B.	Lomonosov Moscow State University	Ultraweak radiation of biological objects of different levels of organization and the possibility of their use in solving a number of problems in biology, medicine and technology
Vladimirsky B.M.	Crimean Astrophysical Observatory	Variations of Natural Super-low Electromagnetic Fields of Ultra-Low Frequencies and Socio-Cultural Dynamics: Nature's Intervention in History
Volodyaev I.V.	Lomonosov Moscow State University	Super-low luminescence of biological systems: from mitogenetic rays to free-radical biology
Koltover V.K.	Federal Research Center of Problems of Chemical Physics and Medical Chemistry	Nuclear spin catalysis in living cells and biomolecular motors: from magnetic spin effects in chemical physics to biomedical effects of weak electromagnetic fields
Lobyshev V.I.	Lomonosov Moscow State University	Water as a non-equilibrium and self-organizing system
Panova G.G.	Agrophysical Research Institute	Study of electromagnetic fields influence on agricultural plants at the Agrophysical Research Institute: past, present and future
Ryzhkina I.S.	A.E. Arbusov Institute of Organic and Physical Chemistry	Physicochemical screening of aqueous diluted systems of biologically active substances – a path to the development of drugs for agricultural and biomedical purposes

03 October 2024 (Thursday)

Section "Research, physical models and mechanisms of low factor action at molecular and cellular levels of the living system organization"

Section "New non-medicinal technologies in medicine and veterinary"

04 October 2024 (Friday)

Section "Low impacts at the organismal and population levels and the stability of life processes in the biosphere"

Section "Role of electromagnetic fields in the functioning of plants"

Accommodation

Reservation of accommodation during the Congress is carried out by participants independently. The closest hotel to the Congress venue is the Orbita Hotel, located at 4 A, Nepokorennikh Avenue, St. Petersburg (6 minutes walk from the Ploshchad Muzhestva metro station and 15 minutes to the Agrophysical Research Institute).

We are pleased to announce that for the period of stay from September 30, 2024 to October 5, 2024, a **15% discount** will be valid using the **promo code Congress** from the Best Rate of the Day with breakfast included (the room price includes accommodation in the selected category, buffet breakfast).

Reservations are possible:

- On the website <https://spborbita.ru/>
- By phone +7 812 309 87 59 / +7 812 309 87 62 / +7 (962) 700-87-59
- By email spborbita@slavhotels.ru or skrypnikym@slavhotels.ru
- In messages of the official VKontakte group <https://vk.com/orbitahotel1>

When booking a room on the website, you must indicate the promo code Congress in the field "I have a promo code". When entering the promo code, the price will be shown already taking into account the discount.