



**International Conference  
MODERN TRENDS IN GENERAL AND SPACE  
RADIOBIOLOGY  
Dubna, 12—13 October 2017**

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Dear colleagues,

We invite you to take part in the International Conference "**Modern Trends in General and Space Radiobiology.**" The conference will be held on 12—13 October 2017 in Dubna at the International Conference Hall (2 Stroiteley Str.).

**The conference is organized by**

- JINR's Laboratory of Radiation Biology (LRB)
- Scientific Council on Radiobiology of the Russian Academy of Sciences (RAS)
- RAS Radiobiological Society

The main fields of modern radiation and space biology research include regularities and mechanisms of molecular disorders in the genetic structures of mammalian and human cells; mutation formation; neuroregulatory effects; molecular and cytogenetic disorders in different organism's tissues; radiation damage to the central nervous system (CNS), and, as a consequence, cognitive function disorders induced by ionizing radiations of different quality. The radiation effects on the CNS is an increasingly urgent topic from the perspective of the future deep space flights. At the conference, modern data will be presented on the mechanisms of the development of the cellular, molecular, and genetic changes in mammalian and human cells under exposure to radiations with different physical characteristics as well as consequences of these changes. Results will be considered of research on the response of different CNS structures to radiation exposure determining the specifics of the cognitive and behavioral functions in laboratory animals.

The main topics of the conference will be as follows:

- Formation of molecular-genetic, molecular, and cellular damage under exposure to ionizing radiations with different physical characteristics.
- Induction and repair of genetic damage in highly differentiated elements of the nervous system.
- Response of highly differentiated cell systems (the retina and CNS structures) to radiation exposure.
- Animals' cognitive functions and their neurochemical and neurophysiological correlates under exposure to radiation and other physical factors.

## Organizing Committee

**Chairman:** E.A. Krasavin, RAS Corresponding Member, JINR's LRB Director

**Co-Chairman :** M.A. Ostrovsky, RAS Academician, Institute of Chemical Physics RAS

**Executive Secretary:** V.I. Naydich, Cand. Chem., Scientific Secretary of the RAS Scientific Council on Radiobiology

**A.I. Gaziev,** Dr. Biol., Institute of Theoretical and Experimental Biophysics

**I.V. Koshlan,** Cand. Biol., JINR's LRB Scientific Secretary

**V.Yu. Nugis,** Dr. Biol., Burnazyan Federal Medical Biophysical Center of the Russian Federal Medical Biological Agency

**I.I. Pelevina,** Dr. Biol., Institute of Chemical Physics RAS

**A.V. Rubanovich,** Dr. Biol., Institute of General Genetics RAS

**A.S. Stemberg,** Dr. Biol., Institute of Biomedical Problems RAS

**I.A. Zamulaeva,** Dr. Biol., Laboratory Head, Medical Radiological Research Center of the Russian Ministry of Health

## Main dates

**10 September:** the deadline for theses and registration form submission.

**20 September:** sending out the 2<sup>nd</sup> Circular Letter.

**11 October:** conference participants' arrival and registration.

**12—13 October:** conference sessions.

## Guidelines for theses

1—3 single-spaced pages, Times New Roman 12, paragraph indent 1.25 cm, top and left margins 3 cm, bottom and right margins 2 cm. One empty line between the header and text.

A sample header:

**HYPERMETHYLATION IN HUMAN BLOOD LYMPHOCYTES IN THE DELAYED  
PERIOD AFTER IRRADIATION**

*N.S. Kuzmina, A.E. Myazin, N.Sh. Lapteva, A.V. Rubanovich*

Vavilov Institute of General Genetics RAS, Moscow, Russia

[nin-kuzmin@yandex.ru](mailto:nin-kuzmin@yandex.ru)

Single-spaced text

In the same message with a thesis, a Registration Form should be submitted, where corresponding author's e-mail address should be specified. The Organizing Committee will consider the theses before 20 September 2017. The applicants will be informed on the acceptance of the theses and the type of report presentation by the 2<sup>nd</sup> Circular Letter.

The **Organization Fee** is 1000 rubles; for students and postgraduates, 500 rubles. It can be paid during registration at the conference or transferred to JINR's account before \_\_\_\_\_ (Appendix 1).

The conference program will be available at the RAS Scientific Council on Radiobiology and LRB JINR sites: [www.radbio.ru](http://www.radbio.ru) and <http://lrb.jinr.ru/new/konfer/ru.shtml>, respectively.

## **Contact phones:**

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## REGISTRATION FORM

**International Conference**  
**MODERN TRENDS IN GENERAL AND SPACE RADIOBIOLOGY**  
**Dubna, 12—13 October 2017**

Surname \_\_\_\_\_

Name \_\_\_\_\_

Academic degree \_\_\_\_\_ Academic rank \_\_\_\_\_

Position \_\_\_\_\_

Employer (no abbreviations) \_\_\_\_\_

Phone \_\_\_\_\_

**E-mail (required)** \_\_\_\_\_

Talk title \_\_\_\_\_

Research area number (see the message) \_\_\_\_\_

Preferred presentation form (oral or poster) \_\_\_\_\_

Need of hotel accommodation \_\_\_\_\_