

Round-Table Meeting
"Topical Issues of General and Space Radiobiology and Astrobiology"
in Memory of Academicians N.M. Sissakian and A.N. Sissakian
28—29 October 2014



Organized by the Laboratory of Radiation Biology (JINR), Scientific Council on Astrobiology with the RAS Presidium, RAS Scientific Council on Radiobiology, RAS Scientific Council on the Problems of Paleobiology and Organic World Evolution, Institute of Biomedical Problems RAS, Borisiak Paleontology Institute RAS, and Dubna University.

Experiments on modeling the biological action of space radiation have been performed at JINR's accelerators for more than 50 years. JINR's first accelerator, Synchrocyclotron, played an outstanding role in providing radiation safety for the first manned space flights. JINR's unique park of accelerators allows conducting complex research at the molecular, cytogenetic, and organismal levels of biological organization. The ion energies available at these accelerators overlap a significant part of the energy range of the galactic cosmic ray nuclei.

The topics of the meeting include:

- Radiation-induced cytogenetic effects. Regularities in DNA damage induction and repair.
- Radiation and radiobiological aspects of long-term manned space flights. Problems of providing radiation safety for long-term manned space flights.
- Action of high-energy heavy charged particles on the structures and functions of the central nervous system.
- Modeling the action of heavy charged space particles on biological objects.
- Biogeochemical studies of space dust.
- Studies of biofossils in meteorites and ancient terrestrial rocks.
- Space matter research with nuclear physics methods.

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