

## **Center for Collective Usage «Biotechnology, Biomedicine and Environmental Monitoring» Information**

The Center for Collective Usage «Biotechnology, Biomedicine and Environmental Monitoring» of SFedU has the unique scientific equipment.

The Federal State Autonomous Educational Institution of Higher Education «Southern Federal University». The Academy of Biology and Biotechnologies named after D.I. Ivanovsky.

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### **Information on the Center for Collective Usage**

The Center for Collective Usage «Biotechnology, Biomedicine and Environmental Monitoring» specialize in the field of biotechnology, genomic and cell technologies; biomedicine; environmental monitoring.

The Center for Collective Usage possess an extensive instrument base and qualified personnel.

### **The core activity:**

- Molecular-genetic testing of the widespread hereditary diseases.
- Development of technology for monitoring the human reproductive function and fetal development by using new genomic and postgenomic markers.
- Creation of genetic passports of wild and cultivated crops.
- Development of the test systems for estimating the biological safety of agricultural products.
- Development of the test systems for estimating the level of genotoxicity of the environmental factors.
- Ecogenetic and radiobiological monitoring of the terrestrial and aquatic ecosystems and industrial projects.
- Engineering surveys for construction.
- Studying the free-radical mechanisms of biodegradation of the carbohydrates.
- Full range of services for biomolecular, genetic, biochemical, immunoserological, analytical, radiobiological, monitoring studies, engineering surveys.
- The services in the field of biotechnology, biomedicine, genomic and cell technology.

### **The educational services:**

- Writing the diploma projects (bachelor's, master's, Ph.D. and doctoral theses)
- Organization of scientific internships;
- Organization of scientific conferences, master classes, workshops;
- Developing and conducting training courses aimed at the study of the new research methods in the sphere of applied and experimental ecology.
- Conducting laboratory works in the different fields:
  - genetics;
  - molecular biology;
  - biogeochemistry;
  - ecology;
  - environmental management.

- Building expeditionary and managerial skills.
- Building practical skills for dealing with the modern instrument complexes, methods of analysis and interpretation of the findings.

Link to the website: <http://ckp-rf.ru/ckp/3157/>