



FEDERAL RESEARCH CENTRE
«FUNDAMENTALS OF
BIOTECHNOLOGY»
OF THE RUSSIAN ACADEMY
OF SCIENCES

Research Center of Biotechnology RAS

| **Bach Institute of biochemistry**
(foundation date: 1935)

| **Winogradsky Institute of microbiology**
(foundation date: 1935)

| **Skryabin Institute of bioengineering**
(foundation date: 1991)

We create science
Science changes the world

BIOTECH

FUNDAMENTAL STUDIES

- Biodiversity, microbial metabolism and microbial geochemistry
- Biochemistry and functioning of different life forms
- Synthetic biology
- Spatial organization of intracellular structures
- Genomics and metagenomics
- Bioengineering, genetic engineering of microorganisms, plants and animal cells
- Structural biology of complex proteins and submolecular structures
- Genome and proteome basis of intracellular processes structure and functions

RESEARCH AND DEVELOPMENT

- Industrial biotechnologies and green chemistry
- Phylogenetics and agrobiotechnology
- Biogeotechnology
- Molecular diagnostics
- Manufacturing genetic technologies
- Food safety and quality
- Environmental biotechnology
- Drug design

● > 500 research staff members

● > 50 laboratories and scientific groups

● > 400 scientific articles in WoS-journals per year

● Modern sci-tech equipment

Fundamental studies

Research and development, project activities

Educational activities, training of specialists

EDUCATIONAL ACTIVITIES

Postgraduate programmes:

- Molecular biology
- Biotechnology
- Biochemistry
- Microbiology
- Biomathematics, bioinformatics

Thesis committees:

24.1.233.01

Field of study:
1.5.4. Biochemistry
(biological and
chemical science)

24.1.233.02

Fields of study:
1.5.11. Microbiology
(biological science)
1.5.6. Biotechnology
(biological science)



Laboratories

- Center of modern biotechnology. BIOTECH museum
- Postgraduate programmes and Thesis committees
- **3** scientific peer-reviewed journals
- NTI competence center "Molecular engineering in life sciences"

**Expert
analysis**

Standardization

**Knowledging activities,
popularization of science**

SCIENTIFIC INFRASTRUCTURE

- Modern scientific equipment
- 3 Research Equipment Sharing Centers:
 - Core facility “Industrial biotechnology”,
 - Core facility “Bioengineering”,
 - Core facility “Unique microorganisms collection UNIQEM”
- Greenhouse laboratory
- Testing laboratory
- Vivarium
- Electronic microscopy
- Sterile rooms for working with ancient DNA
- Radiation safety cabinet
- Biological safety cabinets, including II hazard class



STANDARDIZATION

Research Center of Biotechnology RAS is a part of the technical committee for standardization № 326 “Biotechnologies” of Rosstandart and the technical committee № 276 “Biotechnologies” of the International Organization for Standardization (ISO)



CONTACTS

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