

06.03.01 Biology

Biomedical Research

Biotechnology is a field of science related to the creation of new products with the help of living organisms, cultured cells and biological processes.

Modern biotechnology is based on the genetic and cell engineering with a wide range of biochemistry methods.

Program objective is to acquaint students with abovementioned research directions and develop the ability to see what biological combinations are possible for the creation of medical products.

Research and professional activities

- Production of bioactive compounds and pharmaceuticals
- Investigation of nanoparticles utilizing microorganisms and cell culture
- Food industry and animal feed production
- Development and application of biological methods of plant protection against insects and illnesses
- Quality control of pharmaceuticals and medicinal substances production
- Genetic and cell engineering
- Tissue therapy
- Pre-clinical trials
- Microbiological research

Practical training and future employment opportunities

- Tsyba Federal Research Medical Center – branch of the Federal Research Medical Center "Radiology Research Center" of the Ministry of Health of Russia
- Alliance of Competences "Park of Active Molecules"
- Karpov Institute of Physical Chemistry"
- Nestle Russia Ltd in Vorsino