



International Center for Biodiversity and Genomics

The International Center for Biodiversity and Genomics (ICBG) was established by decision of the Academic Council of Baku Eurasian University at its meeting held on 28 February 2025. The Center conducts fundamental scientific research on the conservation of biodiversity at the global level, genomic studies, and the impact of climate change on biodiversity, while disseminating research findings to the wider public. Its primary mission is to ensure the secure preservation of biodiversity for future generations, to advance genome-level research, and to promote studies based on modern scientific methodologies.

The main objective of the Center is to carry out scientific research on the global impact of climate change on biodiversity, the sustainable preservation of biodiversity for future generations, genome-level investigation of biodiversity, and its efficient utilization. The Center also aims to establish scientific cooperation with international and local organizations across various fields, participate in global and regional scientific projects, facilitate the introduction of advanced scientific methods into Azerbaijan, encourage the application of scientific achievements in industry, contribute to the improvement and accreditation of university curricula in biodiversity, genetics, genomics, and bioinformatics in line with contemporary scientific advances, and support the training of young specialists.

Research Areas

The Center conducts research and collaborates with international partners in the following areas:

- a) Study of intra- and interspecific gene flow in living organisms, investigation of genetic variations, and associative mapping of quantitative traits;
- b) Study, improvement, and optimization of rapid and molecular breeding methods, including genome editing technologies;
- c) Genome sequencing of selected organisms and bioinformatic as well as biostatistical analysis of the obtained data;
- d) Phylogenetic studies of strategically important plant and animal species in Azerbaijan and worldwide;
- e) Microbiome analysis and metagenomic research;

f) Epigenetic studies;

g) Application of artificial intelligence in biodiversity conservation and genomics research, and related innovative approaches.

You can find information about the members of the center at the following link:

<https://baau.edu.az/az/page/biomuxteliflik-ve-genomika-uzre-beynelxalq-merkez-345>