

## TRAINING RESEARCH LABORATORY "ECOLOGY"

### Main tasks

1. Study of the hydrological and hydrochemical regime of the Ural-Caspian basin;
2. Assessment of the level of toxicological pollution of water in the Ural and Kigach rivers;
3. Analysis of changes in the abundance of sturgeon and semi-anadromous fish in the basin;
4. Study of the ecological state of the air basin of the city of Atyrau in residential areas, in transport routes and in industrial zones;
5. Study of food toxicology;
6. Creation of conditions for attracting undergraduates and students to scientific research and expeditions;
7. Implementation of research, scientific and production work and environmental monitoring of the main parameters of the aquatic environment and bioresources - the Ural-Caspian basin;
8. Development of competencies in research work and research projects of undergraduates and students.

### Main functions

1. Collection and processing of materials of hydrochemistry, toxicology, hydrobiology and ichthyology;
2. Improving methods for assessing the state of aquatic ecosystems and bioresources of water bodies in transboundary basins;
3. Collection and processing of data on air quality in the study areas;
4. Creation of a database on the content of heavy metals in food products;
5. Analysis of the collected material and forecast of the state;
6. Conducting scientific and scientific-practical conferences and seminars in the field of environmental problems in the region;

7 . Implementation of international cooperation in the field of environmental monitoring of the Caspian Sea.

Laboratory manager:

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