

**QUALITY ACHIEVEMENTS
Department of "Biology and Ecology"
for the 2022–2023 academic year**

Field	Achievements
1 Academic work	Students of the 3 rd – 4 th year of the Educational program of a double bachelor's degree in the direction 6B05203 "Environmental protection and rational use of natural resources (Republic of Belarus), concluded between the Non-profit Joint Stock Company "Toraigyrov University" and the Belarusian State Technological University, study in the Republic of Belarus.
2 Academic and-methodological work	EMKD has been developed in all disciplines of the department, modules for educational programs 6B05201, 7M05201 – Ecology, 6B05101, 7M05101 – Biology. 3 monographs and teaching aids were published by the authors: Akhmetov K.K. "Simulids (midges) of Pavlodar (fauna, biology, ecology, phenology and control of their numbers)"; Kalieva A.B. "Soltustik-Shygys Kazakhstan sonals (Diptera, Tabanidae) biology son erekshelikteri"; Amanova G.K., Akimbekova N.Zh., Baitemirova A.K. "Ecology of Microorganisms".
3 Scientific work	<p>1 The Department of Biology and Ecology is working on the project: Program 217 "Development of science", subprogram 102 "Grant financing of scientific research", specifics 156 "Payment for consulting services and research", priority "Rational use of water resources, flora and fauna, ecology" project on the topic: "Development of an ecological system of phytosanitary control of destructive biota (phytophages and phytopathogens) of spring wheat in the North-East of Kazakhstan" No. 66KMU2/4 dated February 24, 2021. The amount of financing is 15,095,360 (fifteen million ninety-five thousand three hundred and sixty) tenge; Program 217 "Development of science", subprogram 102 "Grant financing of scientific research", specifics 156 "Payment for consulting services and research", priority "Rational use of water resources, flora and fauna, ecology" project on the topic: " Dendroclimatic studies using the gradient method (transect) on the territory of the state forest nature reserve of the Semey Ormany " No. 113KMU 3/2 dated May 20, 2022. The amount of financing is 50 000 000 tenge;</p> <p>2 In the educational process, the authors a training manual was introduced by the authors Sergazinova Z.M., Kalieva A.B., Kabdolla M.O. "Ecological biogeography" for students in EP 6B05201-Ecology, 6B05203-Environmental protection and rational use of natural resources; act of implementation of the monograph "Hybridti kymyzdyk kopmaksatty paidalanu dakyly" by A.N. Kukusheva</p>
4 Students' scientific research	The number of published articles on the department was 90, including 10 articles in the journals CCSES RK, Thomson Reuters, Scopus – 7 articles, in the materials of domestic conferences – 66 articles, foreign conferences – 7 articles.

Discussed and approved at a meeting of the department (Minutes No. 1 dated August 31, 2023)

Head of the Department of Biology and Ecology



A. Kaliyeva