

Source of financing	Grant funding for scientific and (or) scientific and technical projects for 2023-2025 (Ministry of Science and Higher Education of the Republic of Kazakhstan)
Priority directions	Life and Health Science
Specialized scientific areas	Study, conservation and rational use of genetic resources of Kazakhstan. Innovative approaches to environmental monitoring and protection. The influence of environmental factors on human health.
IRN of the project:	AP 19680461
Name of the project:	The current state of populations and resource potential of medicinal flora of Kazakh part of Southern and Western Altai
Project Manager	Anar Myrzagaliyeva, Doctor of Biological Sciences, Professor
Implementation deadlines	2023-2025
Relevance	The project is aimed at solving an urgent task – the creation of a raw material base for the pharmaceutical industry of the Republic of Kazakhstan. The idea of the project is to conduct research on raw materials of economically valuable species of medicinal plants and study the current state of populations of rare medicinal plants on the territory of the Kazakh Altai. The implementation of the project will contribute to the sustainable development and environmental safety of the Republic of Kazakhstan, the development of international scientific relations, and the enhancement of the country's prestige in the international arena in the conservation and sustainable use of biodiversity.
Purpose	Assessment of the resource potential of economically valuable medicinal plants and study of the current state of populations of rare medicinal plants of the Kazakh part of Altai, subject to intensive harvesting.
Expected Result	2023: studies will be conducted to identify geographical distribution, study phytocenotic and ecological-biological features of the number of rare, medicinal plant species of the Western Altai using modern research methods. 2024: the yield of raw materials per unit area, the projected coverage of the species, the operational reserve and the volumes of possible preparations of medicinal plants of the Southern Altai will be studied, without prejudice to the natural environment in accordance with the available methods and instructions. 2025: Studies will be conducted on the intraspecific variability of some species of rare medicinal plants, such as: <i>Paeonia anomala</i> L., <i>Allium microdictyon</i> Prokh. using variable spacer ITS (Internal Transcribed Spacer) and IGS (InterGenic Spacer) regions in DNA.
Target consumers of the results obtained	Environmental institutions of Kazakhstan, students and teachers of higher educational institutions, scientific community