

## Brief information about the project

Name of the project	«Research on the collection, identification and processing technology of medicinal resources of Medicinal plants from China and Kazakhstan, and analysis of corresponding processing characteristics of drying» 2020E01048
Relevance	The relevance lies in the development of the pharmaceutical industry and the search for new sources of medicinal raw materials. It can contribute to the development of effective methods of collecting and processing plants to create innovative medicines.
Purpose	Research on the collection, identification, and processing technology of medicinal resources of Medicinal plants from China and Kazakhstan, and analysis of corresponding processing characteristics of drying
Objectives	<ol style="list-style-type: none"> <li>1. Conducting a review of medicinal plants widely used in China and Kazakhstan to identify their medicinal properties.</li> <li>2. Development of methods for the collection and identification of medicinal resources, including the determination of optimal collection times and locations.</li> <li>3. Research on processing technologies, for example, the isolation of active ingredients or the creation of dosage forms.</li> <li>4. Analysis of the technological characteristics of drying to preserve the biological activity of plant raw materials.</li> <li>5. Assessment of the impact of various technological approaches on the quality and effectiveness of medicinal products.</li> <li>6. Development of standards and recommendations to improve the processes of collection, processing and drying of medicinal resources.</li> </ol>
Expected and achieved results	The expected results of this topic include the development of effective methods for collecting and identifying medicinal plants, optimizing their processing technologies, as well as analyzing the technological characteristics of drying. These results can lead to improved production of high-quality medicinal raw materials, improved efficiency of drug production processes and increased opportunities for the use of plants for medical purposes.
Research team members with their identifiers (Scopus Author ID, Researcher ID, ORCID, if available) and links to relevant profiles	<ol style="list-style-type: none"> <li>1. Jenis J. PhD, Professor ResearcherID – ORCID – <a href="https://orcid.org/0000-0002-7148-7253">https://orcid.org/0000-0002-7148-7253</a> Scopus Author ID – 54897942000</li> <li>2. Nurlybekova A.K. senior lecturer ResearcherID – ORCID – <a href="https://orcid.org/0000-0001-9797-284X">https://orcid.org/0000-0001-9797-284X</a> Scopus Author ID – 57204532098</li> </ol>
List of publications with links to them	<ol style="list-style-type: none"> <li>1. Limin Guo, Chenyang Caia, Fei Zhang, Rong Ma and <b>Janar Jenis</b>. Quantitative analysis of phenylpropanoids in <i>Rhodiola rosea</i> from different producing areas // <i>J. Food Bioact.</i> 2023;23:68–73. DOI: 10.31665/JFB.2023.18355 <a href="http://www.isnff-jfb.com/index.php/JFB/article/view/343">http://www.isnff-jfb.com/index.php/JFB/article/view/343</a></li> <li>2. Peng Xu, Zhentao Zhang, Xueyuan Peng, Junling Yang, Xiaoqiong Li, Tiejian Yuan, Xiaohan Jia, YaoyangLiu, Olim Abdullaev, Janar Jenis. Study on vacuum drying kinetics and processing of the <i>Lonicera japonica</i> Thunb. aqueous extracts // <i>LWT - Food Science and</i></li> </ol>

	Technology 2022, 167, 113868. <a href="https://doi.org/10.1016/j.lwt.2022.113868">https://doi.org/10.1016/j.lwt.2022.113868</a> , Q1, процентиль 87 <a href="https://www.sciencedirect.com/science/article/pii/S0023643822008039">https://www.sciencedirect.com/science/article/pii/S0023643822008039</a>
Patents	-