

Brief information about the project

Name of the project	AP09259567 «Multi-botanical Oral Supplement to Suppress the Spreading of SARS in Humans»
Relevance	For thousands of years, medicine and natural products have been closely linked using traditional medicines. Our Approach is to establish the potent and safe botanical formula of different medicinal plants that showed the most therapeutic potential against viral influenza. The present joint project for natural drug research from medicinal plant resources will be engaged in cutting edge fundamental and translational research on phytochemical compositions of medicinal plants to develop safe and effective phytomedicines of defence against viral influenza, SARS and future human health threatened pandemics.
Purpose	The research project mainly focused on using several selected bioactive medicinal plants, to generated new antiviral botanical oral supplement, determinate its chemical constituents, isolation of the main natural product leads, study their structure and pharmacological activities, run in vitro screening to develop new methods and techniques to create natural, safe multi-botanical preparation to suppress the spreading of SARS in humans.
Objectives	Literary search, plant collection, preparatory work, obtaining bioactive extracts, isolation of bioactive compounds, research of the biological activity of compounds and extracts, development of a multi-natural supplement.
Expected and achieved results	Literature review will be conducted; research objects will be collected in the required quantity, medicinal plant materials will be prepared for scientific research. Quantitative and qualitative analysis of selected plant objects will be carried out. Plants will be extracted. The total extracts will be separated using solvents of different polarity. The extracts will be analyzed qualitatively and quantitatively using various chromatographic methods. An interim progress report will be prepared. A multi-natural supplement will be developed.
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"> Janar Jenis – PhD, Professor, Chief Researcher, project leader Scopus Author ID: 54897942000 https://www.scopus.com/authid/detail.uri?authorId=54897942000 Researcher ID: B-1322-2015 ORCID: https://orcid.org/0000-0002-7148-7253 Nurlybekova Aliya – PhD doctoral student, Senior Researcher Scopus ID: 57204532098 Researcher ID: ACB-2803-2022 https://www.scopus.com/authid/detail.uri?authorId=57204532098 ORCID ID: https://orcid.org/0000-0001-9797-284X Ulpan Amzeyeva – PhD doctoral student, Senior Researcher Scopus Author ID: 57219202554 https://www.scopus.com/authid/detail.uri?authorId=57219202554 ORCID: https://orcid.org/0000-0003-3962-0701

	<p>4. Sabambayeva Gaukhar – master, laboratory assistant</p> <p>5. Minkayeva Ayaulym – master student, junior researcher https://orcid.org/0000-0002-6236-5393</p>
List of publications with links to them	<p>1. Aknur Taldybay, Doktorhan Aydarbayeva, Akhmet Aksoy, Gulnara Sitpayeva, Alfya Kurmantayeva, Mohamed A. Ibrahim, Aizhamal Baiseitova, and Janar Jenis. Resources, Morphological, Anatomical Characterization, Phytochemical Profiles and Pharmacological Properties of <i>Ajania fastigiata</i> (C. Winkl.) Poljakov // Applied Research on Medicinal and Aromatic Plants, Accepted 03.2024 (Percentile 89, Q1).</p> <p>2. A.A. Minkayeva, Sh.M. Mamashev, A.K. Nurlybekova, A.A. Kudaibergen, Ye. Shybyray, U. Amzeyeva, J. Jenis. Chemical Constituents of <i>Dianthus superbis</i>, <i>Matricaria chamomilla</i> and <i>Glycyrrhiza glabra</i> // International Journal of Biology and Chemistry, 2(16), 2023, P. 104. https://doi.org/10.26577/IJBCh2023v16i2a11</p>
Patents	<p>1. Patent for the invention "Dietary supplement with Immunomodulating properties (variants)" No. 36452, 17.11.2023, Jenis J.</p> <p>2. Certificate of state registration of Biologically active supplement «TKM-Immuno» KZ.16.01.98.003.R.000318.06.22, 17.06.2022</p>