



Jalmakhanbetova Roza Ilemisovna
Doctor of Chemical Sciences,
associate professor,
Docent of the Department of Chemistry,
L.N. Gumilyov Eurasian National University

Contact details:

e-mail: rjalmakhanbetova@gmail.com
 mob.: +7 (701) -429-6599

ID in Web of Science: H-5825-2017
 Scopus ID: 20734484000
 ORCID: 0000-0001-9937-275X
 ID in Publons H-5825-2017

Professional activity:

The professional experience of 26 years:
 1995 - Junior Researcher of the Laboratories "Chemistry of Medicinal Compounds", Ye.A. Buketov Kargu.
 1995-1998 - Postgraduate student of Ye.A. Buketov Kargu.
 1999 - Researcher, Ye.A. Buketov Kargu.
 1999-2012 - Researcher, Senior Researcher, Institute of Phytochemistry, MSHE RK.
 2004-2007 - Doctoral student at the Institute of Phytochemistry, MSHE RK.
 2011-2017 - Associate Professor of the Department of Humanities and Natural Disciplines, Kazguu.
 2017-2021 - Associate Professor, Professor of the Department of Chemistry, Chemical Technology and Ecology, Kazakh University of Technology and Business.
 Since 2021 - Associate Professor of the Department of Chemistry, L.N. Gumilyov Eurasian National University.
Scientific internships and awards:
 Recipient of a state scientific scholarship for talented young scientists of the Ministry of Education and Science of the Republic of Kazakhstan (2014).
 Fellow of the Matsumae International Foundation (Japan) (2019-2020).
 Awarded the Matsumae Foundation

Education, Scientific degree and title:

1995 - graduated from the Faculty of Chemistry of Ye.A. Buketov Karaganda State University. Specialty "Chemistry", qualification "Chemist. Teacher".
 1995-1998 - Postgraduate study at the Ye.A. Buketov Karaganda State University.
 1998 - degree of Candidate of Chemical Sciences in the specialty "02.00.03-Organic Chemistry".
 2004-2007 - Doctoral study at the Institute of Phytochemistry, Ministry of Science and Higher Education of the Republic of Kazakhstan.
 2010 - degree of Doctor of Chemical Sciences in the specialty "02.00.10-Bioorganic Chemistry".
 2019 - awarded the Associate Professor in the specialty of chemistry.

Scientific interests: Organic synthesis, chemistry of natural compounds, search and synthesis of heteroatom-containing compounds, structural identification of compounds by spectroscopy, chromatographic research methods, study of the biological activity of isolated compounds and their synthesized derivatives.

Research grants for fundamental research programs:

-theme: 02.02.N. "Sesquiterpene lactones and ecdysteroids endemic plants of Kazakhstan, their chemical modification and biological activity" (№ state registration 0100PK00394), included in the program of fundamental research (2000-2002);
 -theme: "The scientific aspects of creation of new monomers of macromolecular compounds and physiologically active substances on the basis of hydrocarbon, synthetic and plant raw materials of Kazakhstan" (F. 0185), approved by order No. 254 of the Ministry of education and science of the Republic of Kazakhstan (2000);
 -theme: "Development of technology for obtaining new antitumor, antiviral and angioprotective drugs based on sesquiterpene lactones and their derivatives" (state registration No. 0102RK00189), included in the Republican scientific and Technical Program (0253) "Development and introduction into production of original phytopreparations for the development of the pharmaceutical industry of the Republic of Kazakhstan" (2002-2006);
 -theme: "New sesquiterpene lactones of plants, their chemical modification and biological activity" (state registration No. 0103RK00176), included in the program of fundamental research (F. 0286) "Search for new biologically active plant substances and the development of practically valuable drugs based on them" (2003-2005);
 -theme: "New biologically active substances from endemic plant raw materials and their synthetic analogues" (state registration No. 0106RK00227), included in the program of fundamental research (F. 0354) "Development of scientific foundations and technologies for creating new promising materials for various functional purposes" (2006-2008);
 -theme: "New sesquiterpene lactones of plants of the flora of Kazakhstan. Structure, properties of molecules and biologically active compounds based on them" (state registration No. 0109RK00661), included in the program of fundamental research (F. 0500) "Development of scientific foundations of new technologies and creation of promising materials for various functional purposes" (2009-2011);
 -theme: "Phytochemical study of plants of Kazakhstan and Siberia. Creation of modified derivatives based on mono - and sesquiterpenoids, flavanoids and their bioscreening", (2012-2014);
 -theme: "Creation of a new radioprotector of natural origin" (2012-2014);
 -theme: "Creation of product samples under the brand" Aromas of the steppes of Kazakhstan " for 2012-2014.
 -theme: " Synthesis of new derivatives of roseofungin" (2018-2020);
 -theme: "Creation and replenishment of the collection of industrially valuable microorganisms, the study and preservation of their biological diversity for the needs of biotechnology, medicine and agriculture", (2021-2022).

Courses: Chemistry of organoelement compounds, Chemistry, Information technologies in chemistry.

Main publications: The publication list includes more than 140 publications, including 2 monographs, 1 textbook, copyright certificates, patents, pre-patents of the Republic of Kazakhstan, more than 20 articles in journals with an impact factor (Thomson Reuters, Scopus), etc.

1. Isolation and In Silico Anti-COVID-19 Main Protease (Mpro) Activities of Flavonoids and a Sesquiterpene Lactone from *Artemisia sublessingiana* // *Journal of Chemistry*, 2021, Article ID 5547013, <https://doi.org/10.1155/2021/5547013/> IF 2.506, Percentile 48, Quartile (Q)3.

<p>Medal for Science Contribution (2020). Winner of the international scholarship "Bolashak" (2021).</p>	<p>2. Synthesis and Molecular Docking of Some Grossgemin Amino Derivatives as Tubulin Inhibitors Targeting Colchicine Binding Site // <i>Journal of Chemistry</i>, 2021, Article ID 5586515, https://doi.org/10.1155/2021/5586515. IF 2.506, Percentile 48, Quartile (Q) 3.</p> <p>3. Flavonoids from <i>Pulicaria vulgaris</i> and Their Antimicrobial Activity // <i>Chemistry of Natural Compounds</i>, 2020, Vol. 56, No5, P. 915-917. DOI.org/10.1007/s10600-020-03185-x. IF 0.653, Quartile (Q)4.</p> <p>4. Isolation and biological evaluation of roseofungin and its cyclodextrin inclusion complexes // <i>Bulletin of the Karaganda University. Chemistry series</i>, 2020, No 4, P. 35-44.</p> <p>5. The component composition of the <i>Tragopogon orientalis</i> volatile constituents and its biological activity // <i>Khimiya rastitel'nogo Syr'ya</i>, 2019, No3, P. 103-108. Doi: 10.14258 / jcprm. 2019034859.</p>
---	--