

Appendix 20. Personnel Directory of the EP “Biotechnology”BA

Full name (in full)	<i>Dzhunusbaev Serik Mutanovich</i> e-mail: Serik_1971_10@mail.ru ; Scopus Author ID: 57782747000 ORCID: 0000-0003-0338-4006		
Position	<i>Associate professor</i> Taught modules: M1 History of Kazakhstan		
Academic career	Basic education: History and Pedagogy PhD in History	Shymkent Pedagogical Institute By decision of the Ministry of Education and Science of the Republic of Kazakhstan	1992 2006
Employment	Associate professor, Head of the department “History of Kazakhstan”	M. Auezov South Kazakhstan University	<i>From 2020 - to the present day</i>
Research and development projects over the past 5 years	Leading researcher of the project AP14872068 «Study of language policy and practice in the Turkestan region in the context of language development challenges of the Republic of Kazakhstan» for 2022-2024.		
Industry collaboration over the past five years	Members of the editorial board of the republican scientific journal “QAZAQTANY”.		
Patents and Copyright Certificates	Copyright certificate No. 58827, dated May 28, 2025, “Sacred places in Southern Kazakhstan. Study Guide”		
Key publications over the past five years	<ol style="list-style-type: none"> 1. “The Image of Kazakh Society in the Studies of Russian Ethnographers during the Russian Empire: on the Example of Material Culture”. Journal <i>Bylye Gody</i>, 2022. DOI: 10.13187/BG.2022.2.640 2. “Everyday Patterns of Interethnic Interaction. Based on Sociological Research in Shymkent.” <i>International Research Journal</i>, 8(39), Part 4, 2022. 3. “Some Aspects of Ethnic Interaction in the Turkmenistan Region,” <i>Bulletin of History</i>, 4(107), 2022. 4. <i>Modern History of Kazakhstan</i>. Textbook. Shymkent. M. Auezov South Kazakhstan State University. 2022. 138p. 5. <i>Sacred Places in Southern Kazakhstan</i>. Textbook. Shymkent. M. Auezov South Kazakhstan State University. 2022. 138p. 		
Activities in specialized organizations over the the past five years	Chairman of the State Certification Commission on the discipline “History of Kazakhstan”. Participation in the meetings and seminars of the working group on the program of the President of the Republic of Kazakhstan “Ruhani zhangyru”.		

Full name (in full)	<i>Ibraeva Nurila Amirovna</i> E-mail: 324014@mail.ru ORCID: https://orcid.org/0000-0002-0148-3142		
Position	<i>Associate professor</i> Taught modules: M15 Philosophy, M17 Cultural Studies and Psychology		
Academic career	<i>Associate professor of the department “Philosophy”</i> <i>PhD in Philosophy</i> <i>Philosophy. Philosophy lecturer-</i>	M. Auezov South Kazakhstan State University Al-Farabi Kazakh National University	2023 2007 1988
Employment	Lecturer of the department “Philosophy and scientific communism” (as a young specialist) Senior lecturer of the department “Philosophy” Associate professor of the department “Philosophy”	Al-Farabi Kazakh National University M. Auezov South Kazakhstan State University	1988 1998 2023 to the present day

Research and development projects over the past 5 years	Participation in the project “Concept and Project for the Development of an Intellectual Nation” for 2025-2027. Video lectures on the discipline “Philosophy”. Themes No.1,2,3,4,6,7,8
Industry collaboration over the past five years	Navoi city, the Republic of Uzbekistan, Navoi State Pedagogical University, 2025. Academic mobility. Guest lectures by discipline - 90 hours.
Patents and Copyright Certificates	On the EP 6B02210-Philosophy “Great Steppe Thinkers” textbook No. 5, 28.04.22.
Key publications over the past five years	1. The space of the Kazakh nomadic world. IScience “Current scientific research in the modern world” Journal Issue 11 (79) Part 8 November 2021 Pereyaslav 2021. P. 120-126. RSCI 2. FEATURES OF THE SOCIAL DEVELOPMENT OF MODERN SOCIETY. M. Auezov South Kazakhstan University, Shymkent, Kazakhstan P 99-101. Proceeding IX International Conference «Industrial Technologies and Engineering» ICITE – 2022, Volume V M. Auezov South Kazakhstan University Shymkent, Kazakhstan 3. Influence of Socio-Organizational and Personal Resources of the Employee on the Positive Perception of Work. Received: 9 May 2023 / Accepted: 13 June 2023 / Published: 5 July 2023. 54 percentile. Scopus
Activities in specialized organizations over the the past five years	Since 2020, Member of the REMC (Republican Educational and Methodological Council at the University). Subsection “Philosophy”

Full name (in full)	<i>Montaev Ardak Bazarbekovich</i> e-mail: elim_menim@mail.ru ; ORCID: https://orcid.org/0000-0002-6364-700X Scopus Author ID: 57192663738		
Position	<i>Senior lecturer</i> Taught modules: M16 Sociology and Political Science		
Academic career	Bachelor in Sociology Master in Social Sciences	Al-Farabi Kazakh National University	2005-2011
Employment	Senior lecturer of the department “Political Science”	M. Auezov South Kazakhstan University	From 2017 – to the present day
Research and development projects over the past 5 years	B-11-14-12 The main directions and problems of updating the political system of the Republic of Kazakhstan		
Industry collaboration over the past five years	The internship under the “Bolashak” program in Washington, the USA, in the 2022-2023 academic year.		
Patents and Copyright Certificates	-		
Key publications over the past five years	1. Gender Aspects of Mutual Effectiveness of Socio-Economic Strategies for Choice of Profession and Employment of Young Specialists. Academic Journal of Interdisciplinary Studies. Vol 11, No 2. Published: 5 March 2022. –P.275-291, https://doi.org/10.36941/ajis-2022-0051 2. The Problem of Transboundary Water Resources Management in International Relations. Vol. 109 No. 1 (2025): 61-70 KazNU Bulletin. Series of International Relations and International Law- https://bulletin-ir-law.kaznu.kz/index.php/1-mo/article/view/1516/1233		
Activities in specialized organizations over the the past five years	-		

Full name (in full)	<i>Tleulov Bolatbek Ernstovich</i> E-mail: aleka2004@mail.ru
Position	<i>Head of the department “State and Legal Disciplines”, PhD in Pedagogical Sciences, Associate professor</i> Taught modules: M.8.1 Fundamentals of Anti-Corruption Culture, M.8.3 Fundamentals of Financial Literacy

Academic career	Head of the department “State and Legal Disciplines” Senior lecturer of the department, Associate professor of the department “Theory of State and Law” Dean of the faculty “Pedagogy”, Acting associate professor of the department “Pedagogy and Psychology” Head of the center for monitoring the quality of education and distance learning, Acting associate professor of the department “Civil law disciplines”	M. Auezov South Kazakhstan State University	2011-2025 2021-to the present day 2011-2021 2009-2010 2002-2009
Employment	<i>Position</i> Individual attorney, member of the Republican bar association, member of the Bar Association of Shymkent	<i>Employer</i> Bar Association of Shymkent	<i>Period</i> 2011-to the present day
Research and development projects over the past 5 years	Theoretical and Legal Aspects of Anti-Corruption Policy Legal Mechanisms for Developing an Anti-Corruption Culture The Potential of Using Artificial Intelligence in Identifying Corruption Risks Open Data and Public Procurement: An Analysis of the Effectiveness of Digital Control Development of a Legal Educational Module “Anti-Corruption Culture for University Students”		
Key publications over the past five years	<p>1. Features and prospects of the constitutional control body activity on constitutionalism formation in the Republic of Kazakhstan. BULTIC JOURNAL OF LAW & POLITICS A Journal of Vytautas Magnus University VOLUME 15, NUMBER 1 (2022) ISSN 2029-0454 pp. 1860-1875</p> <p>2. Some issues of corruption prevention in the courts of the Republic of Kazakhstan. "BULLETIN OF GENERAL SCIENCE AND EDUCATION" No. 6(3)2024 Republican scientific journal. – Astana: Ministry of Information and Social Development of the Republic of Kazakhstan 2024 – 360 pp. 306-309 pp.</p> <p>3. “Prevention of forest fires as a means of ensuring environmental order” Bulletin of KAZNU legal series. No.4 (112). 2024. Reference S.T.Tynybekov, S.B.Beisebayeva., A.S.Sabyr, G.T.Muratova., B.E.Tleulov.</p> <p>4. Some problems of typology of modern social state - Proceedings VI International Conference “Industrial Technologies and Engineering” ICITE, - 2019, Volume III (I) M. Auezov South Kazakhstan State University, Shymkent, Kazakhstan, October 24-25, 2019.</p> <p>5. Features and prospects of the constitutional control body activity on constitutionalism formation in the Republic of Kazakhstan. BULTIC JOURNAL OF LAW & POLITICS A Journal of Vytautas Magnus University VOLUME 15, NUMBER 1 (2022) ISSN 2029-0454 pp. 1860-1875</p> <p>6. Some issues of corruption prevention in the courts of the Republic of Kazakhstan. "BULLETIN OF GENERAL SCIENCE AND EDUCATION" No. 6(3)2024–P. 306-309.</p>		
Activities in specialized organizations over the the past five years	Individual attorney, member of the Republican bar association, member of the Bar Association of Shymkent		

Full name (in full)	<i>Torgautova Sholpan Ashiralievna</i> e-mail: torgautova82@mail.ru; https://orcid.org/0000-0001-5853-3879 Researcher ID: O-7353-2017		
Position	Associate professor Taught modules: M.8.2 Abay Studies, M.8.4 Mukhtar Studies		
Academic career	Historian, history lecturer	Kh.A. Yassawi SKTU	2003
	Master in History		2006

Employment	Senior lecturer	college “Femida”	2003-2010
	Chief of the office	SKPU	2010-2014
	Chief specialist	M. Auezov SKSU	2015-2020
	Chief manager	M. Auezov South Kazakhstan University	2020-2021
	Editor-in-chief and secretary	Scientific publication - republican scientific journal “QAZAQTANY”	From 2019 to the present day
Research and development projects over the past 5 years	Leading researcher of the project “AP 14872068 - Study of language policy and practice in the Turkestan region in the context of the tasks of language development of the Republic of Kazakhstan (2022-2024).”		
Industry collaboration over the past five years	04.12.2020-05.06.2021 - MISD, KISD “Rukhani zhangyru” “Ozgerister saruarlary” - project accelerator - 36 hours, 2021 - RPO Association of Departments of the APK RK on the theme “Scientific support and methodological support in the sphere of interethnic relations: new approaches in the activities of the departments of the Assembly of the People of Kazakhstan” - 72 hours, 25.10-25.11.2023 Scientific internship - 144 hours.		
Patents and Copyright Certificates	<p>1. Author's certificate No.4562 dated June 17, 2019, “Methodological Guidelines for the Design of a Research Project (in Technical, Pedagogical, Humanities, Philological, and Creative Fields)” 2019</p> <p>2. “Abay Studies” textbook. Certificate of entry of information into the state register of rights to objects protected by copyright. No. 48008 dated June 28, 2024 2024</p>		
Key publications over the past five years	<p>1. The role of the Great Khanate of the Golden Horde in the formation of states, the role of Alash Khan in the formation of the national spirit in the history of the Kazakhs. “QAZAQTANY” Republican scientific journal. 2 (22) 06 / 2024. pp. 15-23</p> <p>2. Preparation of educational literature – “Fundamentals of National Self-Awareness.” pp. 593-596. Proceedings of the international scientific and practical conference. - Samarkand: “Samdchti” Publishing House, 2024.628P. held on May 29, 2024.</p> <p>3. 32-E The Abay’s Word: the main conditions for mastering science. pp. 306-307. Proceedings of the XXVII Republican student scientific conference on the theme “Vectors of Development of Youth Science” in the natural, technical, social, humanitarian and economic sciences. Vol. 6. April 4-5. M.Auezov SKU 2024. 3rd place in the international relations section.</p> <p>4. Social and legal status of Kazakh girls and women according to the code of laws of 1885 “Karamola erezhesi” “QAZAQTANY” republican scientific journal. 3 (23) 09 / 2024. P.5-18</p> <p>5. Preparation of educational literature - “the foundations of national identity” Collection of works. III International Summer School for Teachers of Eurasian Countries “Quality of Education and the Rapprochement of Cultures. Theory and Practice of Developing Knowledge Societies”. September 10-12,2024 Almaty: Smart University Press, 2024. 122 p. P.81-84</p>		
Activities in specialized organizations over the the past five years	<p>1. Member of the RPO “Association of Chairs of the Assembly of the People of Kazakhstan” Shanyrak L.N. Gumilev ENU , Astana;</p> <p>2. Member of scientific expert group ANK “Social agreement” Shymkent;</p> <p>3. The head of the scientific group at the National Center “History and Ethnology” “Academy of Spiritual Revival “MIRAS” from among experienced teachers-scientists and qualified specialists</p>		

Full name (in full)	Ismailov Khairulla Bakhtiyarovych E-mail: ismailovkhh@mail.ru Scopus Author ID 55955116500 ORCID: 0000-0002-7733-125X		
Position	<i>PhD in technical sciences</i> Teaching modules: M 2.4 Basics of artificial intelligence		
Academic career	<i>PhD in technical sciences</i> 05.17.08 – Process and apparatus of chemical technologies	M. Auezov South Kazakhstan State University	2003-2006
	Applied mathematics	M. Auezov South Kazakhstan State University	1998-2002

Employment	Lecturer, senior lecturer, associate professor of the department "Information systems and modeling"	M. Auezov SKU, Shymkent city	2002-to the present day
Research and development projects over the past 5 years	<i>SB SRW 21-01-01 – "Actual problems of scientific and technical and project support of modern information systems" of the department "Information systems and modeling" for 2021-2025.</i>		
Industry collaboration over the past five years	1. Search and AI. certificate No. : ICT20250406029751. Effective Date : 2025-04-06. Huawei. 2. Overview of AI. certificate No. : ICT20250404064190 Effective Date : 2025-04-04/ Huawei.		
Patents and Copyright certificates	1. Author's certificate No.0408 dated 05.03.2016. "Logistics information system of the distribution of material resources of the enterprise (computer program)"		
Key publications over the past five years	1. Mathematical Modeling and Algorithm for Calculation of Thermocatalytic Process of Producing Nanomaterial // Indonesian Journal of Electrical Engineering and Computer Science. Vol. 23, No. 3, September 2021, pp. 1590~1601. ISSN: 2502-4752, DOI: 10.11591/ijeecs.v23.i3.pp1590-1601. 2. Mathematical and computer simulation of particle redis-tribution and inertial swarm-ing in dispersed systems // Indonesian Journal of Electrical Engineering and Computer Science. Vol. 28, No.2, November 2022, pp. 909~917. ISSN: 2502-4752, DOI: 10.11591/ijeecs.v28.i2.pp909-917. 3. Creation of the simulation model of transportation for the organization and optimization of a transport logistics enterprise// Journal "Vestnik KAZNITU", No.4 (140), 2020. - P. 179-187. 4. Modeling of hydrodynamics and heat exchange in heat exchangers with turbulators // Vestnik Abay KazNPU. Series: Phys.-math.sciences. 88(4), 2024. https://doi.org/10.51889/2959-5894.2024.88.4.009 . 5. Mathematical modeling and calculation of minimal gas energy for dispersing liquid into droplets // Vestnik of the National Engineering Academy of the Republic of Kazakhstan. Mathematical sciences series. 2024. No. 4 (94). https://doi.org/10.47533/2024.1606-146X.022 . - P. 263-274. 6. Basic data management system. Study guide. Almaty: Typography "Evero", 2022. - 232 p. Approved by the academic council of M. Auezov SKU, protocol No. 13 dated 31.03.2022. ISBN 978-601-352-666-9.		
Activities in specialized organizations over the the past five years	Member of the Educational and Methodological Association of the Republican Educational and Methodological Council "Information and Communication Technologies", 2024.		

Full name (in full)	Utegenova Gulzira Zhaksylykovna E-mail: gulzi_2615@mail.ru https://orcid.org/0009-0007-4750-9006		
Position	<i>Accociate professor</i> Taught modules: M 3 Kazakh (Russian) language, M 19 Professional Kazakh (Russian) language		
Academic career	PhD in Philology 10.02.06-Turkic languages <i>Master in Philology</i> <i>Philology</i>	M. Auezov South Kazakhstan State University International Kazakh-Turkish University	2007 2006 2004
Employment	<i>Accociate professor of the</i> department "Journalism and Kazakh Language" Faculty "Philology"	M. Auezov South Kazakhstan University	2006-to the present day
Research and development projects over the past 5 years	The research is conducted on the theme "Historical vocabulary of the Kazakh language". 10 scientific articles were published in this direction.		
Industry collaboration over the past five years	25.02.2022. Advanced qualification in the course "Theory and genre of journalism, current problems: analysis, practice" in the amount of 72 hours, Shymkent city. Kazakhstan, Shymkent, School of Information Technologies KazMBS "Digital teacher: the technology of preparation of mass open online courses in the educational process" No.001/21-M 31.01.2023. 72 hours.		

	Kazakhstan, Shymkent, School of Information Technologies KazMBS “Using Web-technologies in the educational process” No.006/23-M 27.07.2023. 72 hours.
Key publications over the past five years	<ol style="list-style-type: none"> 1. Creation of nouns by morphological method. Republican scientific journal “Qazaqtany”, No.1, 2020 - p. 198-202. 2. Basic history of historical vocabulary. Materials of the International Scientific and Practical Conference “Communicative Linguistics and Linguistics”. Almaty, 2020. - p. 25-29. 3. Language, culture, ethnos. Auezov readings -18. Shymkent, 2020. - p. 268-271. 4. The image of Ulzhan in the epic “Path of Abay”. Material of the international scientific-theoretical conference “Mothers of great steppe-Karkabatan”. Karaganda, 2021. - p. 75-77. 5. The importance of dialect in the image of spiritual culture. Bulletin of Science of South Kazakhstan. Shymkent, 2020. - p. 179-185. 6. The place of Journalism profession in society. Materials of the international scientific and practical conference “Integration of culture, education, science and modern media communication”, Nur-Sultan, 2021. p. 61-63 7. Cognitive foundations of political discourse. Collection of materials for the international scientific and practical seminar on the theme “Culture of word: Science. Education. Methodology”. Almaty, 2021. p. 242-248. 8. Ethnographic dialectism. “Problems and perspectives of implementation of interdisciplinary studies” collection of articles on the results of the international scientific and practical conference. Sterlitamak, Russia, 2021. P. 40-42
Activities in specialized organizations over the the past five years	-

Full name (in full)	Satykhanova Gulmira Alikhanovna E-mail: gulmira.satylkhanova@aeuzov.edu.kz Scopus ID: 57205268049 https://orcid.org/0000-0002-4081-9147		
Position	<i>PhD, senior lecturer</i> Taught modules: M.3, M.10 Foreign language		
Academic career	<i>PhD (doctor of Philosophy)</i>	Abay Kazakh National Pedagogical University Kh.A. Yasawi International Kazakh-Turkish University	2015-2018 2006-2008
Employment	Senior lecturer, PhD	Abay Kazakh National Pedagogical University M. Auezov South Kazakhstan University.	2018-2023 2023-to the present day
Research and development projects over the past 5 years	Scientific direction: Philology, Literary studies, Methods of teaching foreign languages SB SRW 21-06-11 on the theme of state and budget «English-Kazakh-Russian Dictionary of Computer Science and Information Technologies»		
Industry collaboration over the past five years	2017-2018 Completion of an internship at the University of Gazi, Turkey		
Patents and Copyright certificates	No-		
Key publications over the past five years	<ol style="list-style-type: none"> 1. «Forms and using the methods of traditions of folk pedagogy for the purposes of ecological culture education of schoolchildren». Materials of the International scientific and practical conference “Role of folk pedagogy in modern education” Republic of Uzbekistan. December 15-16, 2022 - p. 339-342 2. Effective use of information and communication technologies in Teaching English. Proceeding X International Conference ICITE – 2023, Volume V. Shymkent, Kazakhstan November 18, 2023. 		

	<p>3. Brief characteristics of proper names. <i>BULLETIN of L.N. Gumilyov Eurasian National University. PHILOLOGY Series</i> No. 4(145)/2023. (KKCOH)</p> <p>4. Formation of a culture of communication in the conditions of a modern university. Ejser 12th international symposium on social sciences 25-27 Kasım / November 2023, Türkiye/Turkey</p> <p>5. Theoretical prerequisites for the application of interactive and active methods of English language instruction in distance learning. <i>Journal of Ecohumanism</i>. 2024. Volume: 3, No: 4, pp. 484 – 496 ISSN: 2752-6798 (Print) ISSN 2752-6801 (Scopus) DOI: https://doi.org/10.62754/joe.v3i4.3543</p> <p>6. «Language learning techniques employed by Turkic-Speaking students» M. Auezov South Kazakhstan Research University, scientific journal “Auezov University” No.2 (14) 2025.</p> <p>7. “Problems of teaching English language to learners of Kazakh language”, M. Auezov South Kazakhstan Research University, scientific journal “Auezov University” No. 2 (14) 2025.</p>
Activities in specialized organizations over the the past five years	

Full name (in full)	Chirva Margarita Nikolaevna E-mail: chirva.margarita@yandex.kz		
Position	<i>Senior lecturer.</i> Taught modules: M 18, M26, M4, M11 Physical culture		
Academic career	<p><i>Initial academic position</i> <i>Lecturer of the department</i> <i>“Physical education for technical specialties”</i></p> <p><i>Senior lecturer of the department</i> <i>“Physical education for technical specialties”</i></p>	<p>1.Lesgaft National State University of Physical Education, Twice Order-Awarded, St. Petersburg (formerly Leningrad)</p> <p>2.M. Auezov South Kazakhstan State University</p> <p>3.M. Auezov South Kazakhstan University</p>	<p><i>1987-1991</i> <i>From 1994</i> <i>From 2014 to the present day</i></p>
Employment	<p><i>Position</i> <i>Lecturer of the department</i> <i>“Physical education for technical specialties”</i></p>	<p><i>Empoyer</i> M. Auezov South Kazakhstan University</p>	<p><i>Period</i> <i>From 1994 to the present day</i></p>
Research and development projects over the past 5 years	<i>State-Funded research project of the department: “Formation of Pedagogical Communication Culture among Future Physical Education Teachers” SB SRW-21-11-12</i>		
Industry collaboration over the past five years	Scientific internship / Professional development: 2023 – M. Auezov South Kazakhstan University		
Patents and Copyright certificates	<i>Name</i>		<i>Year</i>
Key publications over the past five years	<p>1. Proceedings of the International Scientific and Practical Conference “Auezov readings - 21: New Kazakhstan-future countries”, dedicated to the 80th anniversary of M. Auezov South Kazakhstan University, scientific article: “Sportswoman's warm-up as a factor determining the effectiveness of the competition result” Shymkent 2024.</p> <p>2. “Motivation of students, physical education” Chirva M.N., Azhibekov M.Zh., Mahatbaev F.D. “Auezov readings-22: Materials of the international scientific and practical conference dedicated to the 125th anniversary of academician Kanysh Satbaev -</p>		

	the founder of Kazakh science”, Volume IV, Shymkent 2024 P. 363-366 M. Auevov South Kazakhstan University. 3. Republican Scientific Journal “BULLETIN OF UNIVERSAL SCIENCES AND EDUCATION” No.6(4-1) 2024 - Astana: Ministry of Information and Public Development of the Republic of Kazakhstan 2024. - 155 p. Article: “Athletic gymnastics is the key to a healthy lifestyle”
Activities in specialized organizations over the the past five years	<i>Organization</i> <i>Role</i> <i>Period</i>

Full name (in full)	Shaimerdenova Guldana Smakhulovna E-mail: daneldanel@bk.ru https://orcid.org/0000-0001-8685-7125		
Position	PhD., Associate professor Teaching modules: M 12.1 Information and Communication Technologies		
Academic career	Bachelor's degree in Computer Science	International Kazakh-Turkish University	2008
	Master's degree in Computer Science		2011
	PhD	M. Auevov South Kazakhstan State University	2018
Employment	Position Lecturer of the department “Information Systems”	M.Auevov SKSU College	<i>Period</i> 2008-2012
	Senior lecturer of the department “Computer Science”	M.Auevov SKSU	2012-2018
	PhD., Associate professor of the department “ICT”		2018 -to the present day
Research and development projects over the past 5 years	SB-21-05-01 “Application of modern information and communication technologies in scientific research and education”		
Industry collaboration over the past five years	09.04.2023г. Course certificate «Relational database systems», Universidad Nacional Autonoma de Mexico 22.02.2024г. Course certificate «Code Free Data Science», University of California San Diego. 09.03.2024г. Course certificate «Introduction to Computers and Office Productivity Software», The Hong Kong University of Science and Technology.		
Patents and Copyright certificates	Patent of the Republic of Kazakhstan for a utility model: 1. Heat-resistant concrete. RSE “National Institute of Intellectual Property” of the Ministry of Justice of the Republic of Kazakhstan. Utility model PATENT No.5598. 2020/0714.2. 27.11.2020. 2. Method for obtaining diammonium phosphate from substandard phosphate raw materials of Zhanatas deposit. RSE “National Institute of Intellectual Property” of the Ministry of Justice of the Republic of Kazakhstan. Utility model PATENT No.5689 2020/0776.2. 25.12.2020. 3. Method for obtaining a prolonged action fertilizer mixture with microelements. RSE “National Institute of Intellectual Property” of the Ministry of Justice of the Republic of Kazakhstan. Utility model PATENT No.2020/1123.2		
Key publications over the past five years	1.Control of nonlinear system by means of feedback using the Python-control library. In 2024 <i>IEEE 4th International Conference on Smart Information Systems and Technologies (SIST)</i> (pp. 164-168). IEEE. (2024, May). 2.A Deep Residual Network Designed for Detecting Cracks in Buildings of Historical Significance. <i>International Journal of Advanced Computer Science & Applications</i> , 15(5). (2024). 3.The Impact of “Scratch” on Student Engagement and Academic Performance in Primary Schools. <i>Open Education Studies</i> , 6(1), 20220228. (2024).		

	<p>4. Influence of various parameters on the defluorination of wet-process phosphoric acid. «RASĀYAN Journal of Chemistry», RJC-6472 / 2021. Vol.14, N4, 2021. «SCOPUS». Vol. 14 No. 4 2273-2278 2021</p> <p>5. Research of the process of synthesis of diammonium phosphate from extractive phosphoric acid from balanced phosphate silicon shapes of the Karatau basin. «RASĀYAN Journal of Chemistry», Vol. 15 No. 2 914-919 April - June 2022 ISSN: 0974-1496 e-ISSN:0976-0083 CODEN:RJCABP. http://www.rasayanjournal.com http://www.rasayanjournal.co.in</p> <p>6. Digital Learning Ecosystem: Current State, Prospects, and Hurdles. Open Education Studies 2023; 5: 20220179. https://doi.org/10.1515/edu-2022-0179 received August 06, 2022; accepted November 07, 2022.</p> <p>7. Lead-containing slags: recycling methods and environmental impact. Rev Inorg Chem 2023; aop. https://doi.org/10.1515/revic-2023-0004 Received January 13, 2023; accepted April 7, 2023; published online April 20, 2023.</p> <p>8. Using information and communication technologies in the automation of chemical processes. “Textile Industry Technology: A Peer-Reviewed Scientific and Technical Journal,” No. 2 (386), 2020, published by Ivanovo State Polytechnic University, pp. 165-169, “SCOPUS.”</p>
Activities in specialized organizations over the the past five years	“The best teacher of the University – 2024”

Full name (in full)	Zhunisbekova Dana Alkhanovna E-mail: Dana.Zhunisbekova@aeuzov.edu.kz SCOPUS ID 57211611122, https://orcid.org/0000-0002-5554-5863		
Position	<i>PhD in pedagogical sciences, Associate professor</i> Taught modules: M 5 Higher Mathematics		
Academic career	<i>PhD in pedagogy,</i> Theory and methods of teaching and training (Mathematics) 0301 - Mathematics, computer science, and computer engineering	M. Auezov South Kazakhstan State University, Shymkent Shymkent branch of Kh.A. Yasawi International Kazakh-Turkish University	<i>From 2007 to the present day</i> 1997
Employment	Lecturer, Senior lecturer, Associate professor of the department “Higher mathematics and physics for technical specialties”	M. Auezov South Kazakhstan State University	<i>From 2004 to the present day</i>
Research and development projects over the past 5 years	SB-SRW-21-16-01 “Improving the methods of teaching mathematics”, scientific supervisor D.A. Zhunisbekova.		
Industry collaboration over the past five years	Certificates of participation in international conferences are available: 1. XVIII International Scientific and Practical Conference “MODERNÍ VYMOŽENOSTI VĚDY – 2022”. Prague, Czech Republic. 2. XVIII International Scientific and Practical Conference “STRATEGICZNE PYTANIA ŚWIATOWEJ SAUKI – 2022”. Przemysł, Poland. 3. XVIII International Scientific and Practical Conference “БЪДЕЩИТЕ ИЗСЛЕДВАНИЯ – 2022”. Sofia, Bulgaria. 4. XVIII International Scientific and Practical Conference “TRENDS OF MODERN SCIENCE – 2022”. Sheffield, UK. 5. International scientific and practical conference dedicated to the 5th anniversary of the program “Rukhani Zhangyru” “New Kazakhstan - in the New World”, M.Auezov South Kazakhstan University, Shymkent, 2022. 6. International scientific and practical conference “AUEZOV READINGS-20: THE LEGACY OF MUKHTAR AUEZOV - THE HERITAGE OF THE NATION”, dedicated to the 125th anniversary of M.O. Auezov, Shymkent, M.Auezov South Kazakhstan University, 2022. 7. XX International scientific and practical conference “RESEARCH RESEARCH-2023”. Sofia, Bulgaria.		

	<p>8. XX International scientific and practical conference “VĚDA A TECHNOLOGIE: KROK DO BUDOUCNOSTI” Prague, Czech Republic.</p> <p>9. XV- International Scientific and Practical Conference “DIGITAL TECHNOLOGIES IN SCIENCE AND EDUCATION 2”, Aachen, Germany.</p> <p>10. XXI- International Scientific and Practical Conference “SCIENCE AND CIVILIZATION – 2024”. Sheffield, UK.</p> <p>11. XXI- International Scientific and Practical Conference “NAUKOWA PRZESTRZEŃ EUROPY – 2024”. Przemyśl, Poland.</p> <p>12. XXI International Scientific and Practical Conference “VĚDECKÝ POKROK NA PŘELOMU TYSYACHALETY – 2024”. Prague, Czech Republic.</p> <p>13. XX International Scientific and Practical Conference “KEYS TO MODERN SCIENCE”. Sofia, Bulgaria.</p>
Patents and Copyright certificates	1. Certificate of state registration of rights to the copyright object “Mathematical analysis (Indefinite and definite integrals)” No. 0547 dated March 29, 2016 and No. 0544 dated March 29, 2016.
Key publications over the past five years	<p>1. Physico-Chemical Study of the Possibility of Utilization of Coal Ash by Processing as Secondary Raw Materials to Obtain a Composite Cement Clinker. Journal of Composites Sciences, 2023, 7(6), 234. – Basel, Switzerland. – 15 p. Citescore 3,6 (процентиль 68). (Scopus)</p> <p>2. Development of university students’ logical thinking through a problem-based approach to teaching Higher Mathematics. // Journal “Eurasian education, Science and Innovation”. – Vol.13. - pp.23-27.</p> <p>3. Mathematical description of the process of film condensation of vapors from steam-gas mixtures. - Rasayan Journal OF Chemistry, Vol. 15. – No.3. – 2022. – India. – pp.1905-1915. (Scopus)</p> <p>4. Theoretical studies of the heat transfer process and the hydrodynamics of a condensate film by numerical experiment. - Rasayan Journal Of Chemistry, Vol. 15. – No.3. – 2022. – India. – pp.1894-1904. (Scopus)</p>
Activities in specialized organizations over the the past five years	

Full name (in full)	Ponomarenko Elena Valerievna E-mail: fizika.ponomarenko.2020@mail.ru Scopus Author ID: 57189993972 ORCID: https://orcid.org/0000-0002-7733-125X		
Position	<i>Professor</i> <i>Taught modules: M 13 Physics</i>		
Academic career	<i>Doctor of Pedagogical sciences</i> 13.00.01 - <i>General pedagogy, history of pedagogy and education, ethnopedagogy</i> <i>PhD of Pedagogy</i> 13.00.02 – <i>Theory and methodology of education and training (physics)</i> <i>Physics and astronomy</i>	Abay Kazakh National Pedagogical University, Almaty Abay Kazakh National Pedagogical University, Almaty A. I. Herzen Russian State Pedagogical University	2007-2010 2002-2005 1985-1991
Employment	Lecturer of Physics and Astronomy Senior lecturer, associate professor, professor of the department “Higher mathematics and physics for technical specialties”	M. Kh. Dulati School-gymnasium No. 8, Shymkent city M. Auezov SKU, Shymkent	1993-2006 2006-to the present day
Research and development projects over the past 5 years	Head of SB SRW “Scientific-methodical basis of teaching physics to students of higher schools in modern conditions” (2021-2025)		
Industry collaboration over the past five years	1) Internal mobility: Higher qualification (attendance of webinars, presentation, discussion, development of new scientific and methodological materials on the method of teaching physics at the higher school): 2023, Al-Farabi KazNU (city of Almaty). 2) Permanent member of the organizing committee of the International Scientific and Practical Conference “Physics in the System of Modern Education (FSME)” (St. Petersburg, RF)		

Patents and Copyright certificates	<p>1. Author's certificate No.58461 dated 22.05.2025. Model of the structure of metasubject scientific knowledge on the theme “Transfer phenomenon”(in co-authorship).</p> <p>2. Author's certificate No.. 12472 dated 09.10.2020. Methodological recommendations for the organization of cluster interaction in the system of continuous pedagogical education at the regional level (in co-authorship).</p> <p>3. Copyright Certificate No. 12467 dated October 9, 2020. Elective Course Program for Students in Grades 10-11 of Secondary Schools (in co-authored).</p> <p>4. Copyright Certificate No. 12468 dated October 9, 2020. Advanced Training Program for Teachers “Development of Digital Pedagogy Based on the Cluster Approach” (in co-authored).</p>
Key publications over the past five years	<p>1. Some problems of teaching physics in high school in the period of pandemic (Kaz.)// Bulletin of Karaganda University. Series Pedagogy. – 2021. - No.4(104). - P. 75-82.https://doi.org/10.31489/2021Ped4/75-82</p> <p>2. Organization of work with stakeholders of the educational program “Physics” in new conditions // Pedagogy and psychology. – 2021. - No.4(49). - P. 5-13.https://journal-pedpsy.kaznpu.kz/index.php/ped/article/view/463/760</p> <p>3. The problem of studying physics at a research university: analysis of world experience and practical recommendations // Bulletin of Science of South Kazakhstan.. – 2023. No.1 (21). - P.155-161.</p> <p>4. Complex scientific approach to teaching physics at a research university // Bulletin of Science of South Kazakhstan. – 2023. No.1 (21). - P. 162-167.</p> <p>5. The application of knowledge of physics in the study of mathematics in high school // Bulletin of Science of South Kazakhstan.. – 2023. No.2 (22). - P. 138-144.</p> <p>6. Experimental justification and development of a methodology for conducting an introductory lecture on the discipline "Physics" // Bulletin of Science of South Kazakhstan. - 2024. - No. 1 (25). - Pp. 127-131.</p> <p>7. Problems of implementing current monitoring of students' knowledge in modern conditions: results of theoretical analysis // Auezov University. - 2025. - No. 2 (accepted for publication) (in co-authored).</p> <p>8. Analysis of Forecast Scenarios of Hazardous Factors Affecting the Shift Settlement of Oil Field Indicators (co-authored). Polish Journal of Environmental Studies. 2025. DOI: 10.15244/pjoes/197463 (accepted Scopus Q3) https://www.pjoes.com/Analysis-of-Forecast-Scenarios-of-Hazardous-nFactors-Affecting-the-Shift-Settlement,197463,0,2.html</p>
Activities in specialized organizations over the the past five years	<p>2015 to the present day– Expert at the National Center for State Scientific and Technical Expertise, JSC, Science Committee of the Ministry of Science and Higher Education of the Republic of Kazakhstan</p> <p>2014-2019 – Expert at the Independent Agency for Accreditation and Rating, Republic of Kazakhstan</p>

Full name (in full)	Serikbaeva Aizhan Muhammedaliyevna		
	E-mail: ali_2006.82@mail.ru https://orcid.org/0000-0002-8204-7851		
Position	<i>Master in Pedagogy</i> Taught modules : M 6 Chemistry		
Academic career	Doctoral studies 8D05311-“Chemistry”	M. Kh. Dulati Taraz Regional University	2020-2023
	Master's degree 6M011200-“Chemistry”	Kazakhstan Engineering and Pedagogical University of Peoples' Friendship	2013-2015
	Bachelor 0107-“Chemistry”	Kh.A. Yasawi International State Kazakh-Turkish University	2000-2004
Employment	Position Laboratory assistant of the department “Chemistry and Biology”	South Kazakhstan Pedagogical University	<i>Period</i> 2004 -2005
		Miras University	<u>2005-2015</u>

	Instructor, Senior lecturer of the department “Chemistry and Biology” M. Auezov South Kazakhstan University Senior lecturer of the department “Chemistry and Pharmaceutical Engineering”	2015 -to the present day
Research and development projects over the past 5 years	Project performer in the State Budget 21-03-05 “Development and production of polymeric surfactants to improve the quality of surfactants” for 2021-2025.	
Industry collaboration over the past five years	“Obtaining and improving the characteristics of clays grafted with organoalkoxides, silanes and amines, possessing adsorption properties, for the removal of heavy metals contained in water” 04.03. -07.05. 2022. Polytechnic Institute of Bragança, Portugal	
Patents and Copyright certificates	Patent of the Republic of Kazakhstan for the utility model “Method for producing a sorbent for purifying aqueous solutions” No. 9615/2024/0790.2	
Key publications over the past five years	1. PREPARATION AND PHYSICO-CHEMICAL CHARACTERIZATION OF ORGANIC MODIFIED CLAYS WITH GRAFTED ORGANOALKOXIDES News of the National Academy of Sciences of the Republic of Kazakhstan JSC “ D.V. Sokolsky Institute of Fuel, Catalysis and Electrochemistry” Chemistry and technology ALMATY, NAS RK Volume 5-6, Number 449 (2021), 61-68 ://doi.org/10.32014/2021.2518-1491.78 2. Development of organic modified clays with grafted organoalkoxides for the treatment of contaminated waters International Congress .Water, waste and energy management. Rome/Italy 20-22Jule 2022 3. Methods of preparation and physico-chemical characteristics of organic modified clays with grafted organoaloxides Bulletin of the National Academy of Sciences of the Republic of Kazakhstan Satbayev University Series of geology and technical sciences 3 (453) MAY – JUNE 2022 https://doi.org/10.32014/2022.2518-170X.188 4. Preparation and physico–chemical characterization of organically modified clays with grafted DMSO and TEOA News of the National Academy of Sciences of the Republic of Kazakhstan JSC “ D.V. Sokolsky Institute of Fuel, Catalysis and Electrochemistry” Chemistry and technology ALMATY, NAS RK January – March 2023 (454) https://doi.org/10.32014/2023.2518-1491.152 5.Development and characterization of organically grafted clay minerals for the removal of methylene blue from water Clays and Clay Minerals (2024), 72, 34, 1–10 doi:10.1017/cmn.2024.34 6.Justification of the technology of fire extinguishing materials based on ammonium phosphate Mechanics and Technology / Scientific journal. – 2023. – No.3(81). – P.113-118. https://doi.org/10.55956/FSQL3987	
Activities in specialized organizations over the the past five years		

Full name (in full)	<i>Alpamysova Gulzhaina Baygonysovna</i> Gulzhaina.Alpamysova@aeuzov.edu.kz SCOPUS ID 57216615904, https://orcid.org/0000-0002-0181-2348		
Position	<i>Taught modules: M.44.1 Molecular Genetic Research Diagnostics, M.44.2 Synthetic Biology</i> <i>PhD in Agricultural Sciences, Associate Professor</i>		
Academic career	<i>Initial academic position</i>	<i>University</i>	<i>Year</i>
	<i>Lecturer of Chemistry and Biology</i>	<i>Kh.A. Yasawi International Kazakh-Turkish University</i>	<i>1994</i>
Labor activity	<i>Lecturer of the department “Pedagogy and Methodology of Primary Education”</i>	<i>Kh.A. Yasawi International Kazakh-Turkish University</i>	<i>1994-1996</i>
	<i>Senior lecturer of the department “Biology”,</i>	<i>Syrdarya University</i>	<i>1996 – 2002</i>
	<i>Deputy dean of the faculty “ Sports Biology”</i>	<i>International Humanitarian and Technical University</i>	<i>2002-2011</i>
			<i>2011 – 2016</i>

	<p><i>Deputy dean, Head of department, Head of the academic department</i></p> <p><i>Head of the department “Biology”</i></p> <p><i>Dean of the Faculty “Natural Sciences”</i></p> <p><i>Head of the academic organization centre</i></p> <p><i>Head of the department “Biotechnology”</i></p>	<p><i>South Kazakhstan State Pedagogical Institute</i></p> <p><i>South Kazakhstan State Pedagogical Institute</i></p> <p><i>Kh.A. Yasawi International Kazakh-Turkish University</i></p> <p><i>M. Auezov South Kazakhstan University</i></p>	<p>2016 -2021</p> <p>In 2021</p> <p>From 27.08.2021 to the present day</p>
Research and development projects over the past 5 years	<p>1. Under the innovative project of the Shymkent Department of Agriculture and Veterinary Services, Order No. 664 dated July 12, 2021, “Implementation and Reproduction of the Design of the Domestic Suspended Two-Row Transplanter Model RPM-2KZ for Planting Vegetable and Garden Crops Seedlings in Soil and Open Ground,” the project's scientific performer;</p> <p>2. “Science Development,” Program 102 “Grant Financing of Scientific Research,” Priority “Rational Use of Water Resources, Flora and Fauna, and Ecology,” Scientific Project No. AP14872527 “Creation of the Technology for Obtaining Organic Fertilizers Based on Phosphorus-Containing Fertilizers” and the Project performer “Carbon-Containing Waste to Increase Vegetable Crop Yields in the Turkestan Region.”</p>		
Industry collaboration over the past five years	Internship at the Polytechnic University of Valencia (Spain) and Tashkent University of Chemical Technology.		
Patents and Copyright certificates	<p>1. Isolation of DNA for biological materials and determination of its purification, No.49683</p> <p>5. Method of producing a combined bacterial-humic preparation.</p>		<p>2022</p> <p>2022</p>
Key publications over the past five years	<p>1. Selection of the composition of the fertilizer and optimal factors for the cultivation of green microalgae on phosphorus—Containing waste in the south of Kazakhstan. Journal of Infrastructure, Policy and Development, 2024, 8(8), P. 4817</p> <p>2. Study of the Properties of New Strains of Green Microalgae Cultivated on Residual Phosphorus-Containing Waters. Polish Journal of Environmental Studies, 2024, 33(4), P. 3991–3997</p>		
Activities in specialized organizations over the past five years	Reviewer of K.A. Khalilova's thesis on the theme “Technology of intensive cultivation of <i>Pyracantha</i> seedlings and creation of its plantations.”		

Full name (in full)	<p>Marko Vinceković (prof. dr. sc. Marko Vinceković)</p> <p>E-mail: mvincekovic@agr.hr</p> <p>Scopus ID: 14523626600, https://orcid.org/0000-0001-6158-3914</p>		
Position	Professor of the faculty “Agronomy”, University of Zagreb.		
Academic career	<p><i>Initial academic position</i></p> <p><i>Bachelor's degree</i></p> <p><i>Master's degree</i></p> <p><i>Doctoral studies (PhD)</i></p>	<p><i>University</i></p> <p><i>University of Zagreb,</i></p> <p><i>University of Zagreb,</i></p> <p><i>University of Zagreb,</i></p> <p><i>University of Zagreb,</i></p>	<p><i>Year</i></p> <p><i>~1999–2003</i></p> <p><i>~2003–2006</i></p> <p><i>2003–2009</i></p>

	<p><i>Postdoctoral/postgraduate training</i> UNAM (Mexico), Institute of Physics, Laboratory of Complex Liquids Apr. 2011 – Apr. 2012</p> <p><i>Assistant</i> University of Zagreb, Faculty of Agronomy 2003</p> <p><i>Senior assistant</i> University of Zagreb, Faculty of Agronomy 2009.</p> <p><i>Associate professor</i> University of Zagreb, Faculty of Agronomy 2010</p> <p><i>Senior researcher</i> University of Zagreb, Faculty of Agronomy 2013.</p> <p><i>Professor</i> University of Zagreb, Faculty of Agronomy 2016</p>									
Employment	<table border="1"> <thead> <tr> <th>Position</th> <th>Employer</th> <th>Period</th> </tr> </thead> <tbody> <tr> <td colspan="3">Since 2003, he has been working at the University of Zagreb, Faculty of Agronomy, first as an assistant and, since 2016, as a professor.</td> </tr> </tbody> </table>	Position	Employer	Period	Since 2003, he has been working at the University of Zagreb, Faculty of Agronomy, first as an assistant and, since 2016, as a professor.					
Position	Employer	Period								
Since 2003, he has been working at the University of Zagreb, Faculty of Agronomy, first as an assistant and, since 2016, as a professor.										
Research and development projects over the past 5 years	<p><i>Project manager and participant in biopolymer microencapsulation projects:</i></p> <ul style="list-style-type: none"> - "Extraction of bioactive compounds... using high-voltage discharge" (external collaborator) - "New biopolymer microcapsules..." (leader) - "Conversion of biowaste..." (participant) - "Use of biomass ash..." (participant) <p>He was a national project coordinator for the Croatian Science Foundation, a COST partner, UNAM postdoc projects, and a research project with Kazakhstan</p>									
Industry collaboration over the past five years	<p>Founder of the startup Makabi Agritech, which develops "smart tablets" for plants based on microcapsules</p> <p>COLLAB c Schutzen Care Private Ltd. (2023)</p> <p>Project EU «MAKABI – A small capsule for a healthier plant and functional food» (2023)</p>									
Patents and Copyright certificates	<p><i>Name</i></p> <p>In the submission stage: patent applications are not indicated explicitly, but there is an intention to file them within the next 2 years under the Makabi framework.</p>									
Key publications over the past five years	<p><i>Novel copper alginate microspheres as ecological fungicides</i> — Sustainability, 16 (2024), doi:10.3390/su16135637</p> <p><i>Amplifying synthesis of health-promoting metabolites in tomatoes via stimulation with encapsulated biological and chemical agents in hydroponic and soil cultivation</i> — Food Bioscience, 61 (2024), 104717</p> <p><i>Abstracts at the 59th Symposium of Agronomists, Zagreb, 2024</i> (several reports)</p> <p><i>Application of zinc formulations of microalgae (Chlorella) in blueberry cultivation</i> — materials of the symposium , 2023</p>									
Activities in specialized organizations over the the past five years	<table border="1"> <tbody> <tr> <td>Croatian Chemical Society</td> <td>Membership</td> <td>from 2003</td> </tr> <tr> <td>Croatian Society for Electronic Microscopy</td> <td>Membership</td> <td>from 2005</td> </tr> <tr> <td>European Colloid and Interface Society</td> <td>Membership</td> <td>from 2009</td> </tr> </tbody> </table>	Croatian Chemical Society	Membership	from 2003	Croatian Society for Electronic Microscopy	Membership	from 2005	European Colloid and Interface Society	Membership	from 2009
Croatian Chemical Society	Membership	from 2003								
Croatian Society for Electronic Microscopy	Membership	from 2005								
European Colloid and Interface Society	Membership	from 2009								
Awards and Competitions	<p>2018: award MOJZABASTART from Zagrebačka banka</p> <p>2018: ZICER (Zagreb Start-up Factory) – award for Makabi</p> <p>2019: EIT Climate-KIC – two awards</p> <p>2020: AGROARCA – silver medal</p> <p>2022: EIT Food – 2 awards</p>									

Full name (in full)	<i>Ametov Yakub Idrisovich</i> E-mail: raf_78@inbox.ru , ametovyakub@gmail.com SCOPUS ID 59484308000, https://orcid.org/0009-0008-2057-2555		
Position	<i>Professor of Ecology</i> <i>Taught modules: M41.1 Environmental Biotechnology</i>		
Academic career	<i>PhD in Biology</i> <i>Ecology/Ecologist</i>	Institute of Zoology, Academy of Sciences of the Republic of Uzbekistan, Tashkent	2010
	<i>Doctor of Biological Sciences</i> <i>Zoology/Zoologist</i>	Institute of Zoology, Academy of Sciences of the Republic of Uzbekistan, Tashkent	2019
Employment	Trainee-teacher and researcher at the department “Ecology and Environmental Protection”	Berdakh Karakalpak State University, Nukus city	2001-2004
	Postgraduate student at Tashkent State Agrarian University	Tashkent State Agrarian University	2004-2007
	Assistant at the department “Ecology and Physiology”	Berdakh Karakalpak State University, Berdakh Karakalpak State University,	2008-2012
	Associate professor of the department “Ecology and Physiology”	Berdakh Karakalpak State University,	2012-2013
	Head of the department “Ecology and Soil Science”	Berdakh Karakalpak State University,	2013-2019
	Dean of the Faculty “Biology”	Berdakh Karakalpak State University,	2019 – to the present day
Research and development projects over the past 5 years	1. “Support for the implementation of wind auctions in Uzbekistan” (project of the international consulting company JURU ENERGY CONSULTING LLC and the Bank for European Reconstruction and Development, ID-77670 - 2019-2021), national expert. 2. “Kungrad 1, 2, 3 Wind Farm” (national expert on ornithological research within the framework of the international project of the company Green Business Innovation - 2023). 3. Economic agreement of the Ministry of Ecology, Environmental Protection and Climate Change of the Republic of Uzbekistan, project manager for the “State Registration and Formation of the Cadastre of Economically Significant Species of Birds and Mammals on the Territory of the Republic of Karakalpakstan”. Economic agreement with the “Ministry of Ecology, Environmental Protection and Climate Change of the Republic of Uzbekistan” (Nukus) - 2023. (693 million sum)		
Industry collaboration over the past five years	Research internship: 2022 – at the Aegean University (Türkiye), 2024 – at the Tianjin Agricultural University (China).		
Patents and Copyright certificates	<i>Name</i> <i>year</i>		
Key publications over the past five years	1.K. Kosnazarov, Ya. Ametov, A. Khabibullaev, A. Reymov, I. Turdimambetov, Sh. Shaniyazov, A. Berdimuratova. Characteristics of dust-salt transfer from the dried bottom of the Aral Sea and the Aral region, as well as their lossout. E3S Web of Conferences Volume 575 (2024) Second Central Asian DUst Conference (CADUC-2 2024). Published online: 11 October 2024. (Scopus). DOI: https://doi.org/10.1051/e3sconf/202457504003 - P.1-4 . 2.Turdybaev K.P., Ametov Ya.I., Matekova G.A., Ametova N.I., Tleumuratov S.A. Materials on the birds of the Karakalpak part of the Ustyurt plateau. Universum: Chemistry and biology. Scientific journal. No.11(125). Part 1 – Moscow, 2024. – P.15-21. 3.Ya.I.Ametov, M.A.Jumanov, A.J.Xabibullaev, M.O.Allamuratov, Q.Turdibaev. Ekologiya tiykarlari. Uchebник. – Nukus. “Ilm nur”, 2024. – 436 p.		

	<i>Organization</i>	<i>Role</i>	<i>Period</i>
Activities in specialized organizations over the the past five years	1. Since 2008, member of the Non-Governmental Non-Commercial Organization (NNO) “Bird Protection Society of Uzbekistan”. 2. From 2009 to the present day, the head of the Karakalpak branch of the NNO “Society for the Protection of Birds of Uzbekistan”.		

Full name (in full)	<i>Akhanov Usen Kudaibergenovich</i>		
Position	<i>Associate professor of the department “Biotechnology”, M.7.1 Fundamentals of Biotechnology, M.7.2 Fundamentals of Academic Writing, M.24.1 Animal Physiology, M.24.2 Modeling of Physiological Processes, M.30.1 Animal Biotechnology, M.30.2 Transgenic Animals, Plants and Methods for their production</i>		
Academic career	<i>Initial academic position</i>	<i>University</i>	<i>Year</i>
	<i>specialty – Zootechny, qualification – Zooengineer”</i>	Belarusian State Agricultural Academy	1993
	<i>PhD in Agricultural Sciences</i>	Kazakh scientific research institute of Karakul sheep breeding	1999
Employment	<i>Position</i>	<i>Employer</i>	<i>period</i>
	<i>Scientific researcher</i> <i>Senior lecturer, Associate professor of the department “Biotechnology”</i>	Kazakh Research Institute of Karakul Sheep Breeding M. Aueзов South Kazakhstan University	1993-2000 2007 -2009, from 2010- to the present day
Research and development projects over the past 5 years	Grant project “AP23488050: Development of the technology for creating a new type of environmentally friendly biofertilizer based on microencapsulation of compositions of biological agents and micro/macronutrients.” Funding amount: 110 million tenge, 2024-2026.		
Industry collaboration over the past five years	RSE on REM “National Center for Biotechnology”, National Scientific Biotechnology Shared-Use Laboratory, June 2025		
Patents and Copyright certificates	<i>Name</i>	<i>Year</i>	
Key publications over the past five years	Biosynthesis of cellulose with <i>Trichoderma viride</i> and <i>Aspergillus awamori</i> micromycetes in co-cultivation <i>Eur Asian Journal of BioSciences</i> 13, 1521-1526 (2019) Investigation of Acid and Enzyme Wheat Staw Hydrolysis for Obtaining Polysaccharides <i>Oriental Journal of Chemistry</i> 2, 1-7 (2019) Improvement of the technology of preparation of seam of ram producers for extracorporal fertkization of sheep M.Aueзов South Kazakhstan State University, Shymkent, Kazakhstan International Conference of Industrial Technologies and Engineering (ICITE-2019) Стр 58-61 Research Article <i>Pakistan Journal of Biological Sciences</i> ISSN 1028-8880 DOI: 10.3923/pjbs.2025.236.245 Growth Effect of <i>Pseudomonas</i> Isolates on Tomato in Greenhouse Production <i>Pakistan Journal of Biological Sciences</i> ISSN 1028-8880 DOI: 10.3923/pjbs.2025.236.245		
Activities in specialized organizations over the the past five years	<i>Organization</i>	<i>Role</i>	<i>Period</i>
	<i>Membership without a specific role does not need to be mentioned.</i>		

Full name (in full)	Yesimova Anar Madenovna E-mail: anar_esimova @aezov.edu.kz ID: https://orcid.org/0000-0002-2456-0497		
Position	Associate professor of the department “Biotechnology”, Taught modules: M.28.1 Biochemistry, M.28.2 Inorganic Chemistry, M.41.1 Environmental Biotechnology, M.41.2 Biodegradation and Stability of Pollutants, Xenobiotics		
Academic career	Chemical engineer – technologist phD in Chemical Science Technology of Inorganic Substances	Kazakh Chemical- Technological Institute, Shymkent D. V. Sokolsky Institute of Electrochemistry, Almaty	<i>Year</i> 1982 2004
Employment	Position: Lecturer, Senior lecturer, Head of department, Associate professor of the department “Biotechnology”	Employer: Kazakh Chemical- Technological Institute, Shymkent M. Auezov South Kazakhstan University	<i>Period</i> 1987-2004 2004-2005 2005-to the present day
Industry collaboration over the past five years	Scientific Internship: Completed at KU Leuven (Brussels, Belgium) as part of a professional development program to gain international experience.		
Patents and Copyright certificates	<i>Name</i> Biological product for plant protection and growth stimulation Patent No. 30990 for invention dated February 19, 2016, Astana Composition for adapting biological products Patent No. 30991 for invention dated February 19, 2016, Astana		<i>Year</i> 2016 2016
Key publications over the past five years	<p>1. Study of N-isopropylacrylamide-based microgel particles as a potential drug delivery agents. Colloids and Surfaces A 532 (2017) 8–17. http://dx.doi.org/10.1016/j.colsurfa.2017.07.075 Cite Score - 4,9 (2017). Surface and Interfaces – 80 (Q1). Процентиль 80</p> <p>2 Ways and solutions to preserve the gene pool of rare and endangered plants Caspian Journal of Environmental Sciences. Iran. (2022) 1135 –1142. https://doi.org/10.22124/cjes.2022.6094</p> <p>3. Biotechnological methods in pulp and paper production from an alternative source of raw materials – savior of the ecosystem. <i>Applied Environmental Biotechnology</i>, 8(2): 1-9. (2023) https://www.scopus.com/souceid/21100901906 Interfaces – 65 (Q3).</p>		
Activities in specialized organizations over the the past five years	<i>Organization</i>	<i>Role</i>	<i>Period</i>
	First place in the university competition, Best Lecturer on the disciplines of 2011. Recipient of the title of “Best Teacher of a Higher Education Institution of 2016”.		

Full name (in full)	Isaeva Akmaral Umirbekovna., E-mail: akisayeva @mail.ru SCOPUS ID 58934066800, https://orcid.org/0000-0001-8323-3982		
Position	Doctor of biological sciences, Professor Taught Modules: M.21.1 Microbiology and Virology		
Academic career	<i>Initial academic position</i> PhD in Biology Doctor of Biological sciences Associate Professor of Biology Professor of Biology	<i>University</i> S.M.Kirov Kazakh State University	<i>Years</i> 1994 2006 1997 2008
Employment	<i>Position</i>	M. Auezov South Kazakhstan University	<i>Period</i> 1986- to the present day

	Senior lecturer, Associate professor, Professor of the department “Biotechnology”		
Research and development projects over the past 5 years	<p>Grant project of the Republic of Kazakhstan “Development of production technology and obtaining prototypes of new cosmetic products based on pharmacological studies of domestic salt-containing and plant-based raw materials” Funding amount - 76 million 2018-2020.</p> <p>Grant project of the Ministry of Science and Higher Education of the Republic of Kazakhstan “Optimization of the functioning of decentralized biological wastewater treatment systems in the pharmaceutical and cosmetology industry by selecting the composition of phytomeliorant plants” Funding amount: 85 million tenge, 2021</p> <p>Grant project of the Ministry of Science and Higher Education of the Republic of Kazakhstan “Technology for obtaining organic fertilizers based on the utilization of phosphorus-containing and carbon-containing waste to increase the yield of vegetable crops in the Turkestan region” Funding amount: - 90 mln. tg, 2022-2024.</p> <p>Grant project of the Ministry of Science and Higher Education of the Republic of Kazakhstan: “Development of technology for obtaining new cosmeceutical products based on therapeutic muds of Eastern Kazakhstan and livestock products.” Funding amount: 95 million tenge, 2024-2026.</p>		
Industry collaboration over the past five years	<p>Business contract with Shakarim Semipalatinsk State University on the theme: “Research the suitability of Kazakhstan's man-made waste for additional extraction of valuable components using various groups of microorganisms” (2024)</p> <p>Business contract with “KazAzot” JSC on the theme: “Development of the technology for obtaining biogenic microelements from soil using electrophysical methods” (2024)</p> <p>Business contract with “KazAzot” JSC on the theme: “Development of the technology for obtaining bioprotein from industrial waste” (2024)</p>		
Patents and Copyright certificates	<p>1. Patent of the Republic of Kazakhstan “Method for phytoconservation of coal-containing waste” No. 9100</p> <p>2. Patent of the Republic of Kazakhstan “Method for phytoindication of the level of contamination of gray soils by brown coal waste” No. 9731</p>		<p>Years 2020 2020</p>
Key publications over the past five years	<p>1. Influence of Lead-Zinc Slags of the Shymkent City on the Environment. Journal of Ecological Engineering 2022., p 83-89. (Scopus, Q2)</p> <p>2. Influence of the nutrition substrate concentration on sulfate reduction on denitrifying biofilter point of use. Indian Chemical Engineer 2023. p 28-33. (Scopus, Q1)</p> <p>3. The influence of abiotic factors on organisms-hydrobionts of activated sludge. Journal of Ecological Engineering 2023., p 125–133 (Scopus, Q2)</p>		
Activities in specialized organizations over the the past five years	<p>The “Bolashak” program 500 Scientists at the Institute for Nature Conservation in Krakow, Poland (March - September 2024)</p> <p>“Biogas production technology” Seminar at Universiti Putra Malaysia (December 2024)</p>		

Full name (in full)	<p><i>Turalieva Moldir Alibekovna</i> e-mail: nazanovamoldir@mail.ru, SCOPUS ID:56020015200, https://orcid.org/0000-0001-5021-9260</p>		
Position	<p>Associate professor, of the department “Biotechnology” Taught modules: Biochemistry (M.28.1), Biophysics (M.32.1), Animal Physiology (M.24.1), Modeling of Physiological Processes (M.24.2), Plant Physiology (M.25.1), Modeling and Scale-Up in Biotechnology (M.42.2)</p>		
Academic career	<i>Initial academic position</i>	<i>University</i>	<i>Years</i>
	<i>PhD in (specialization/ Biotechnology)</i>	<i>M. Auezov South Kazakhstan University</i>	<i>2016</i>
	<i>Master's degree (specialization / Biotechnology)</i>	<i>Al-Farabi Kazakh National University</i>	<i>2010</i>
	<i>Bachelor's degree (Biotechnology)</i>	<i>Al-Farabi Kazakh National University</i>	<i>2008</i>

Labour activity	Position: <i>Junior researcher</i>	<i>Employer</i> <i>Republican State Enterprise “Scientific Center for Anti-Infectious Drugs” (Almaty)</i>	2008-2010
	Specialist of the HAC	<i>M. Auezov South Kazakhstan University(Shymkent)</i>	2011
	Lecturer at the department “Biotechnology”	<i>M. Auezov South Kazakhstan University(Shymkent)</i>	2016
	Associate professor of the department “Biotechnology”	<i>M. Auezov South Kazakhstan University(Shymkent)</i>	2024
Research and development projects over the past 5 years	Scientific interests: microbiology, protection of dendroflora from phytopathogens, molecular genetic studies, including all types of PCR analyses, as well as DNA and RNA extraction to study the mechanisms of plant resistance to diseases.		
Industry collaboration over the past five years	Scholar of the “Bolashak” Program (2022–2023) , a scientific internship at the University of Arizona (Tucson, USA) under the “500 Scientists” initiative, focusing on Green Technology, Bioengineering, and Biotechnology . Presentation at international conferences on plant protection and phytopathology , including the American Phytopathological Society Conference (Brownsville, Texas, USA) . Undertook additional internships at the Aachen University of Applied Sciences (Jülich, Germany) and the National Center for Biotechnology (Astana, Kazakhstan) , deepening expertise in molecular biology and modern biotechnological methods .		
Patents and Copyright certificates	1. <i>Bacillus thuringiensis 4-ant bacterial strain exhibiting fungicidal activity against South Kazakhstan strains of phytopathogenic fungi Fusarium solani, Fusarium oxysporum, Fusarium sporotrichioides, Fusarium culmorum and Fusarium flocciferum, causative agents of Ulmus pumilla L. trunk disease.</i>		2021
	2. Strain <i>Thiobacillus ferrooxidans ThioA-1</i> , for bioleaching of rare earth metals from mineral waste		2025
Key publications over the past five years	1. The Role of Fusobacteria in the Genesis of Preterm Births Based on Bibliometric Analysis/ /ES Food&Agroforestry. V 18, 2024 DOI:https://dx.doi.org/10.30919/esfaf1290 Q1 2. Biotechnology of Microorganisms from Coal Environments: From Environmental Remediation to Energy Production / Biology 2022, 11,1306.https://doi.org/10.3390/biology11091306 Q1 Publisher’sNote: MDPI stays neutral. Copyright: © 2022 by the authors.MDPI 3.Antagonistic and enzymic activity of potential bearing Bacillus thuringiensis4ant strain, 61–66, DOI:10.12775/EQ.2019.004 Q2		
Activities in specialized organizations over the the past five years	Official reviewer of Malik Azhar Malikkyzy's PhD thesis on the EP 8D05105 “Biotechnology”(KazNU, Almaty). Participant in the Opening Networks Through English (ONE) program, part of the C5+O.N.E. project, organized by the US Embassy.		

Full name (in full)	<i>Elemanova Zhanar Rakhmanberdievna</i> e-mail: zhanar.elemanova@aezov.edu.kz Scopus Author ID: 57381087200 ORCID: 0009-0005-6643-3751		
Position	<i>Associate professor, PhD in Agricultural Sciences.</i> Taught modules: M.14.1 Laboratory Science, M.29.1 Plant Biotechnology, M.29 Plant Bioprotectors and Stimulants, M.31.1 Cellular Biotechnology, M.31.2 Technology.of plant cell and tissue culture cultivation.		
Academic career	<i>Initial academic position</i> <i>PhD in Agricultural Sciences</i>	<i>University</i> Southwest Research Institute of Animal Husbandry and Crop Production	<i>Year</i> 2010
	<i>Specialization: Biotechnology</i> <i>Qualification: Chemical Engineer</i>	M. Auezov South Kazakhstan State University	2001

Labour activity	<i>Position</i> Senior lecturer, Associate professor of the department “Biotechnology”	<i>Employer</i> M. Auezov South Kazakhstan University	<i>Period</i> 2006-2024 from 2024- to the present day
Research and development projects over the past 5 years	Implementation of the state budget research project No. 21-01-07 on the theme: “Modern approaches and biotechnological aspects of production in the agro-industrial complex, food and pharmaceutical industries”.		
Industry collaboration over the past five years	Advanced training and supplementary education course for universities from the “Galimnur” Center in Turkestan.		
Patents and Copyright certificates	Author's Certificate No. 7062, dated February 8, 2022 “Method for creating annual pastures”		
Key publications over the past five years	<p>1.Ways and solutions to preserve the gene pool of rare and endangered plants. Caspian Journal of Environmental Sciences. Vol 20, Issue5, 2022. – P. 1135 – 1142. DOI 10.22124/cjes.2022.6094 (procentile -74)</p> <p>2.Study of the resistance of Arum korolkowii to high-temperature impacts of different intensity at physiological, biochemical, molecular and genetic levels. Indian Journal of Genetics and Plant Breeding. Vol. 83, 1, - 2023.- P. 127 – 134.DOI10.31742/ISGPB.83.1.16 (процентиль -71)</p> <p>3.Effects of Different Biostimulants on Seed Germination of Sorghum. Plants.Journal of Ecological Engineering Vol. 24, 3.2023. –P. 134 – 142. DOI10.12911/22998993/157568 (procentile- 58)</p> <p>4.Molecular genetic analysis of the ICE 1 gene in Arum korolkowii Regel. Caspian Journal of Environmental Sciences. 2023, 21(5), pages 1143-1149.(procentile -64)</p>		
Activities in specialized organizations over the the past five years	<i>Organization</i>	<i>Role</i>	<i>Period</i>
	<i>Membership without a specific role does not need to be mentioned.</i>		

Full name (in full)	<i>Ermekbaeva Akbope Tontaevna</i> Akbope.Ermekbaeva@aezov.edu.kz SCOPUS ID 57217928444, https://orcid.org/0000-0002-4606-2448		
Position	<i>PhD, Associate professor</i> Taught modules: M.14.2 Cold Engineering, M.44.1 Applied Genetics, M.44.2 Genetic Monitoring of Natural Populations		
Academic career	<i>Initial academic position</i>	<i>University</i>	<i>Year</i>
	<i>PhD 6D011300-Biology</i>	Abay Kazakh National Pedagogical University	2018
	<i>050607 - Bachelor in Biology</i>	Kh.A. Yasawi International Kazakh-Turkish University	2011
Labour activity	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Master lecturer</i>	South Kazakhstan State Pedagogical Institute	2011-2014
	<i>Doctoral student</i>	Abay Kazakh National Pedagogical University	2014-2017
	<i>Senior lecturer</i>	Y. Altynsarin Arkalyk State Pedagogical Institute	2017-2020
	<i>Acting associate professor, Head of the department “Biology and Agricultural Specialties”</i>	Taraz Innovative Humanitarian University	2020-2021
<i>“Silkway” International University</i>	Head of the Research Institute “Fundamental and Applied Sciences”	2021-2022	
<i>Associate professor of the department “Biotechnology”</i>	M. Auezov South Kazakhstan University	Since September 2022	

Research and development projects over the past 5 years	Implementation of the state budget research project No. 21-01-07 on the theme “Modern Approaches and Biotechnological Aspects of Production in the Agro-Industrial Complex, Food and Pharmaceutical Industries.”	
Industry collaboration over the past five years	Completed advanced training courses and a scientific and methodological internship at the following organizations: Newcastle University, part of the “Enhancing Learning and Teaching in Higher Education” program (Newcastle University, UK); A.I. Herzen St. Petersburg State Pedagogical University on the theme “Modern Problems of Biological Education and Methods of Teaching Biology”; Moscow State Regional University on “Modern Aspects of Biotechnology Education”.	
Patents and Copyright certificates	1. Virtual laboratory work “Isolation of DNA from biological materials”, No. 49653	2024
	2. Biological materials for DNA purification, No. 49682	2024
	3. Isolation of DNA for biological materials and determination of its purification, No. 49683	2024
4. Patent		
Key publications over the past five years	1. The Biological Structure of the Modern Dendroflora of Western Tanirtau. Naturalista Campano, ISSN: 1827-7160, Vol. 28, Issue 1, 2024. – P. 310-314. doi://museonaturalistico.it/ 2. Growing Arum korolkowii Regel in laboratory conditions. Caspian Journal of environmental Sciences, Vol. 22, No 2. –P. 329-337 doi: 10.22124/CJES.2024 .	
Activities in specialized organizations over the the past five years	Expert of the EP 7M01505 - Training of Biology Teachers for the Master's Degree at M.Kh. Dulati Taraz Regional University; Chairman of the Certification Commission on the Defense of Master's and Diploma Theses on the EP 7M01505 - Training of Biology Teachers, 6B01501 - Chemistry and Biology Teacher at Miras University and at M.Kh. Dulati Taraz Regional University.	

Full name (in full)	<i>Dauylbay Amina Duisenkhanzy</i> E-mail: amina.dauylbai@aezov.edu.kz		
Position	<i>PhD in Agricultural Sciences, Associate Professor</i> Taught modules: M25.1 Plant Physiology, M40.1 Food Biotechnology, M40.2 Biological and Food Safety, M31.1 Biotechnological Aspects of Production and Use of Biostimulants in the Agricultural Sector		
Academic career	<i>Initial academic position</i> <i>PhD in Agricultural Sciences</i>	<i>University</i> Southwest Research Institute of Animal Husbandry and Crop Production	<i>Year</i> 2009
	<i>Specilaty: Biology and Chemistry</i> <i>Qualification: Biology and Chemistry</i> <i>Teacher</i>	Korkyt Ata Kyzylorda State University	2005
Labour activity	<i>Position</i> Lecturer Senior lecturer, Associate professor of the department “Biotechnology”	<i>Employer</i> M. Auezov South Kazakhstan University	<i>Period</i> 2006 2009 <i>from 2010- to the present</i> day
Research and development projects over the past 5 years	Performer of the state budget for research and development work No. 21-01-07 on the theme: “Modern approaches and biotechnological aspects of production in the agro-industrial complex, food and pharmaceutical industries”		
Industry collaboration over the past five years	The course of advanced training and additional education for universities from “Galymnur” center in Turkestan. And also at the Biotechnological Center of the Al-Farabi Kazakh National University, Almaty city.		

Employment	<p><i>Position</i> Senior lecturer of the department “Biotechnology” Senior lecturer, Associate professor of the department “Biotechnology”</p> <p><i>Employer</i> M. Auezov South Kazakhstan University</p> <p><i>Period</i> 2006-2015 2015 -to the present day</p>
Patents and Copyright certificates	<p>“Method of producing microcapsules of probiotic microorganisms.” 2023 Utility Model Patent No. 9494 dated August 23, 2024, based on application No. 2023/1220.2 dated December 14, 2023.</p>
Key publications over the past five years	<p>1.Yeginbay A., Burabaev A., Aitkulova R., ArystanbsevK Comparative analysis of ICEL and ICEgene expression in Arum Korolkovii(Araceae family) un low temperature stress. Editor is pleased to inform you that your paper is accerted for pudlication in the international journal Of health sciences (ISSN 2550-6978)7 2022.</p> <p>2. Antagonistic and enzymic activity of potential bearing Bacillusthuringiensis 4ant strain Yeshiayev, A., Turaliyeva, M., Elibaeva, G., Alibayeva, E., Dauylbay, A. Ecological Questions 2019, 30(1), pages 61–66 https://cjes.guilan.ac.ir/article_7402.html</p>
Activities in specialized organizations over the the past five years	

Full name (in full)	<p><i>Ibraimova Zhuldyz Kairatovna</i> ibraimovajuldiz@mail.ru</p>		
Position	<p><i>PhD, Senior lecturer</i> Taught modules: M.43.1 Bionanotechnology, M.43.2 Structural Principles of Bionanotechnology.</p>		
Academic career	<i>PhD (6D070100-Biotechnology)</i>	M. Auezov South Kazakhstan State University	2012-2015
	<i>Master's degree 6M070100-Biotechnology</i>	M. Auezov South Kazakhstan State University	2011-2012
	<i>Bachelor's degree (6B070100-Biotechnology)</i>	M. Auezov South Kazakhstan State University	2006-2010
Labour activity	Engineer	<i>Empolyer</i> M. Auezov South Kazakhstan State University	<i>Period</i> 2010-2011
	Senior lecturer of the department “Biotechnology”	M. Auezov South Kazakhstan State University	2016- -to the present day
Research and development projects over the past 5 years	<p>Grant project “Research of effective microorganisms producing enzymes, enzyme complexes obtained on the basis of genetic and selection methods, for processing secondary plant raw materials of the agro-industrial complex”. Amount of funding - 102948165 tenge 2024-2026.</p>		
Industry collaboration over the past five years	<p>“Galymnur” Center for advanced training and continuing education, Turkestan city. Al-Farabi Kazakh National University Institute for advanced training and continuing education, Almaty city</p>		
Key publications over the past five years	<p>Zh.Kaipova, V.Satayev, D.Turgyn, ZH.Ibraimova, A.Latif. Modern Status of Technology for Production of Highly Concentrated Methane by Biogas Purification. Evergreen joint journal of Novel Carbon Resource Sciences Green Asia Strategy, Vol.11, Issue 04, Desember, 2024 (Scopus)</p> <p>A.Saparbekova, A.Aitekey, A.Madenovna., ZH.Ibraimova Biotechnological methods in pulp and paper production from an alternative source of raw materials the savior of the ecosystem. Applied Environmental Biotechnology.8.2 1-9.2023 (Scopus)</p>		
	<i>Organization</i>	<i>Role</i>	<i>Period</i>

Activities in specialized organizations over the the past five years	<i>Membership without a specific role does not need to be mentioned.</i>
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Full name (in full)	<i>Kudasova Darikha Eradilovna</i> e-mail: darikha.kudasova01@aezov.edu.kz Scopus Author ID: 57204909156 ORCID: https://orcid.org/0000-0002-8530-3443		
Position	<i>Master in Biology, Lecturer</i> Taught modules: M.25.2 Fundamentals of microclonal reproduction of plants, M65 Pre-Graduation and Industrial Internship		
Academic career	<i>Doctoral studies</i>	M. Auezov South Kazakhstan State University on the specialty “Biotechnology”	2017-2020
	<i>Master in Biology</i>	Kh.A.Yasawi International Kazakh-Turkish University	2012-2014
	<i>Bachelor in Biology</i>	Central Asian Innovation University	2010-2012
	<i>Laboratory assistant- ALQ, HLQ Higher Educational Institution, Engineer, Head of lab, lecturer</i>	M. Auezov South Kazakhstan State University ,the department “Biotechnology”	2006-2018 2002-2006
	<i>Lecturer in Chemistry</i>	Arys Railway College	2000-2002
	<i>Lecturer in Chemistry Chemist, lecturer</i>	I. Zhurba Secondary school Kh.A.Yasawi International Kazakh-Turkish University	1996-2000
Employment	<i>Position</i> Lecturer of the department “Biotechnology”	<i>Employer</i> M. Auezov South Kazakhstan State University	<i>Period</i> 2020 to the present day
Research and development projects over the past 5 years	2021 “Development of the technology for extracting biologically active substances from plant materials using a multi-enzyme preparation with subsequent enrichment of fruit juices and fermented beverages,” Project supervisor GFP AP09563292 2024-2026 “ Research of effective enzyme-producing microorganisms, enzyme complexes obtained using genetic and breeding methods for processing secondary plant materials of the agro-industrial complex,” Project supervisor GFP AP23488383		
Industry collaboration over the past five years	The qualifications over the past five years, at the “Expert Seven Start Educational Technology Center” in Astana and the “Galymnur” Center for Advanced Training and Continuing Education in Turkestan.		
Key publications over the past five years	1.Potential of phenolic compounds from pomegranate (<i>Punica granatum L.</i>) Saudi Journal of Biological Sciences PII:S1319-562X(22)00469-7.DOI: https://doi.org/10.1016/j.sjbs.2022.103553 byproduct with significant antioxidant and therapeutic effects: A narrative review. (Agricultural and Biological Sciences, General Agricultural and Biological Sciences, процентиль 89, Q1 https://jcr.clarivate.com/jcr-ip/journal-profile?journal=SAUDI%20J%20BIOL%20SCI&year=2022) 2. Encapsulation of Synthesized Plant Growth Regulator Based on Copper(II) Complex in Chitosan/Alginate Microcapsules. by <i>Int. J. Mol. Sci.</i> 2021 , 22(5), 2663; https://doi.org/10.3390/ijms22052663		
Activities in specialized organizations over the the past five years			

Full name (in full)	<i>Rysbaeva Gulnara Sultanbekovna</i> e-mail: guinara.rysbaveva@aezov.edu.kz
Position	<i>Senior lecturer of the department “Biotechnology”</i>

	Taught modules: M.21.2 Sanitation and Hygiene of Biotechnological Production, M.22.1 Biotechnology of Microorganisms, M.21.1 Microbiology and Virology		
Academic career	<i>Initial academic position</i> 05.17.04 - <i>Technology of organic substances</i>	<i>University</i> S.M. Kirov Kazakh State University .	<i>Year</i> 1979-1984
Employment	Position Engineer of the department “Electrothermics and General Chemical Engineering” Lecturer of the department “Technology of “Electrothermics production and Biotechnology” Senior lecturer of the department “Biotechnology”	<i>Employer</i> M. Auezov South Kazakhstan University	<i>Period</i> 1995-1997 1997-2004 2004 – to the present day
Research and development projects over the past 5 years	Research and Development No. B-16-07-02 Research and Development “Research of biologically active substances for the production of medicinal products, as well as the development of methods for processing plant materials”		
Industry collaboration over the past five years	Advanced training and supplementary education course for universities from the “Galimnur” Center in Turkestan.		
Industry collaboration over the past five years	Implementation act of into production 1.No.166 dated 05.04.2018 (Cleaning of water supply sources and drinking water, ALAU service K);		
Patents and Copyright certificates	<i>Name</i> 1. Author's certificate No. 104462 dated April 25, 2020.		<i>Year</i> 2020
Key publications over the past five years	1. Influence of homogenization parameters for formulation of wdouble emulsions with loading of bioactive substanes International Conference of Industrial Technologies and Engineering (ICITE 2018), M.Auezov South Kazakhstan State University Shymkent, Kazakhstan.,28 november. 2018. C. 32-35 2. Using of cattle blood in the technology of hydrolysates. Auezov South Kazakhstan State University, Shymkent, Kazakhstan (ICITE-2022).-C.226-229		
Activities in specialized organizations over the the past five years			

Full name (in full)	<i>Mutalieva Botagoz Zhaksylykovna</i> E-mail: botagoz.mutalieva@aezov.edu.kz https://orcid.org/0000-0001-5295-4410 SCOPUS ID Scopus Author ID: 54682115500		
Position	<i>Associate professor of Biology</i> M.28.1 Biochemistry, M.32.1 Biophysics		
Academic career	<i>Initial academic position</i> <i>PhD in chemical sciences</i> <i>Colloidal and membrane chemistry</i> <i>Lecturer of chemistry and add. spec. biology</i>	<i>University</i> Kh.A. Yasawi International Kazakhstan-Turkish University Kh.A.Yasawi International Kazakhstan-Turkish University	<i>Year</i> 2009 1993
Employment	Engineer Engineer Senior lab assistant, Lecturer Postgraduate Student	M.Auezov SKU, Research Laboratory “Electrochemical synthesis of organic compounds”, Tauke Khan Ave., 5, Shymkent Shym.electrical distribution network, Shymkent.Department “Chemistry”.	1993-1995 1995-1998 1998-2004

	<p>Kh.A. Yasawi International Kazakh- Lecturer, Senior Turkish University, Shymkent 1993-2003 lecturer, Associate Kh.A. Yasawi International Kazakh- professor of the Turkish University, Shymkent department 2004-to the present “Biotechnology” M. Auezov SKU. day</p>
Research and development projects over the past 5 years	<p>2024–2025 – <i>International “Bolashak” Scholarship</i> on the research internship program “500 Scientists”, University of Westminster, London, United Kingdom of Great Britain; period: September 23, 2024 – June 29, 2025.</p> <p>2024–2026 – <i>Scientific Supervisor</i> of the project AP23488050 “<i>Development of the technology for creating environmentally safe biofertilizers of a new type based on microencapsulation of compositions of biological agents and micro/macro-nutrients.</i>” The total amount of project funding for the entire implementation period is 105,809,370 KZT, distributed as follows: 2024 – 31,368,086 KZT, 2025 – 41,837,658 KZT, 2026 – 32,603,626 KZT</p> <p>-2017-2021 Country Coordinator representing M. Auezov South Kazakhstan University in an international program Erasmus+ program project: Enhancing Competences of Sustainable Waste Management in Russian and Kazakh HEIs - EduEnvi. Amount of funding: 127521 euro.</p> <p>- 2022 Project Leader from M. Auezov South Kazakhstan University in collaboration with New Jersey, Rutgers, the USA, Al-Farabi Kazakh National University, and M. Utemisov West Kazakhstan University, Kazakhstan, Grant period: January 1 – September 30, 2022. Project title: “Creating a Partnership Program in Green Nanotechnology and Environmental Sensing.” The program was funded by the U.S. Embassy in Kazakhstan and administered by the American Councils for International Education. Funding for internship expenses at Rutgers University: USD 2,663.57.</p> <p>-2021 Leading researcher in the young scientist project: AP09561846-OT-21 “<i>Biochemical characterization and antiproliferative, cytotoxic effect of purified L-asparaginase enzyme isolated from novel Myroides gitamensis bacteria for antileukemia purposes.</i>” Scientific supervisor: A.B. Tleuova</p> <p>-2023-2025 Chief Researcher, Project AP19679879 “<i>Development of Probiotic Microencapsulation Technology for Enriching Functional Beverages Based on Dairy Industry Waste.</i>” Ministry of Science and Higher Education of the Republic of Kazakhstan.</p>
Industry collaboration over the past five years	<p>University of Westminster, London, United Kingdom, September 23, 2024 – June 29, 2025. Professor Godfrey Kiyazze, Professor Tajali Keshavars. University of Zagreb, Professor Marko Vincekovic.</p>
Patents and Copyright certificates	<p>“Method of obtaining probiotic microorganism microcapsules.” Utility Model Patent No. 9494 dated August 23, 2024, based on application No. 2023/1220.2 dated December 14, 2023. 2023</p> <p>Method of obtaining lipase microcapsules. No. 2018/0861.2 dated November 30, 2018. Decision to grant Utility Model Patent No. 36601 dated September 9, 2019. 2019</p> <p>Composition for adapting biological products. Utility Model Patent No. 104463. (11) 3153. (54).</p> <p>Застосування 3-аміно-5,5-диметилциклогекс-2-ен-1-ону як засобу для вирощування порослят та відгодівлі свиней. No. 121435 dated 25.05.2020., bul.No.10, based on the application a 2018 08445 dated 3.08.2018. 2019</p> <p>Застосування 1-метил-3-метиламіномалеїніміду як засобу для стимуляції розвитку порослят та підвищення продуктивності свиней на відгодівлі. Patent Ukraine No. 122013 dated 25.08.2020, bul No.3 dated 10.02.2020 г., based on the application a 2018 08446 dated 3.08.2018 2020</p>
Key publications over the past five years	<p>1. Effects of co-inoculation with Bradyrhizobium and Trichoderma harzianum on soybean nitrogen nutrition and multispectral traits. Sanja Kajić, Lana Živković, Boris Lazerević, Petra Borovec, Adrijana Novak, Botagoz Mutaliyeva, Tamila Turebayeva, Galyia Madybekova, Marko Vinceković. <i>Environmental Technology & Innovation</i>. Volume 39, August 2025, 104274. https://doi.org/10.1016/j.eti.2025.104274. Plant Science 97%.</p>

	<p>2. Isolation, physico-chemical characterization and biological activity of α-amylase from the culture liquid of the fungus <i>Aspergillus oryzae</i> for using in the enzyme-linked immunosorbent assay International Journal of Innovative Research and Scientific Studies, 8(2) 2025, pages: 2644-2656. Percentile 67%.</p> <p>3. Design and assessment of microencapsulation systems for biologically active agents in homemade sparkling winemaking. International Journal of Innovative Research and Scientific Studies. 8(1):1429-14397 DOI: 10.53894/ijirss.v8i1.4667. 2025. Percentile 67%.</p> <p>4. A. Study of Probiotic Bacteria Encapsulation for Potential Application in Enrichment of Fermented Beverage. <i>Colloids Interfaces</i> 2024, 8, 51. https://doi.org/10.3390/colloids8050051</p> <p>5. Development of Alginate Composite Microparticles for Encapsulation of <i>Bifidobacterium animalis</i> subsp. <i>Lactis</i>. <i>Gels</i> 2024, 10(11), 752; https://doi.org/10.3390/gels10110752.</p> <p>5. Study of the influence of the biochemical composition of the human native ejaculate on the preservation of the male gametes' activity after the application of cryopreservation technology. <i>Reproductive and Developmental Medicine</i>. DOI: 10.1097/RD9.0000000000000083. 2024.</p> <p>6. L-Asparaginase delivery systems targeted to minimize its side-effects. <i>Advances in Colloid and Interface Science</i>, 2023, 316, 102915.</p> <p>7. L-Asparaginase delivery systems targeted to minimize its side-effects. <i>Advances in Colloid and Interface Science</i>, Volume 316, June 2023, 102915. https://doi.org/10.1016/j.cis.2023.102915</p> <p>8. Morphological, rheological and thermal characteristics of biopolymeric microcapsules loaded with plant stimulants. <i>Journal of Polymer Research</i>, volume 29, Article number: 204 (2022). https://doi.org/10.1007/s10965-022-03057-8. Cite Score- 4,0 (2021). <i>Material Science</i> – 63.</p> <p>9. Synthesis, characterization, and encapsulation of novel plant growth regulators (Pgrs) in biopolymer matrices. <i>International Journal of Molecular Sciences</i>, 2021, 22(4), crp. 1–17, 1847. Q1. https://doi.org/10.3390/ijms22041847. (Biochemistry and Molecular Biology)-Q1. Cite Score-6,9 (2021).</p> <p>10. Encapsulation of synthesized plant growth regulator based on copper(Ii) complex in chitosan/alginate microcapsules. <i>International Journal of Molecular Sciences</i>, 2021, 22(5), crp. 1–20, 2663. https://doi.org/10.3390/ijms22052663. (Biochemistry and Molecular Biology)-Q1. Cite Score-6,9 (2021).</p> <p>11. Selection and study of alkoxylenes as loading in submicrocapsules for self-lubricating coatings. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i>. 2019. V.563. P. 359-369. https://doi.org/10.1016/j.colsurfa.2018.12.018. Cite Score -5,8 (2019). <i>Surface and Interfaces</i> – 75 (Q1).</p>
Activities in specialized organizations over the the past five years	<p>National scientific council under the priority area “Life and Health Sciences.”</p> <p>Start of service: 2023.</p> <p>Update: Order No. 94 dated March 6, 2025, Ministry of Science and Higher Education.</p>