

Сагындыков Утемурат Зулхарнаевич
Candidate of Biological Sciences,
Associate Professor.

h-index: 3

Department of Biotechnology and Microbiology

L.N. Gumilyov Eurasian National University

Contact details:
E-mail: utemuratsagyndykov@gmail.com
phone: +7 7172-709-500

Professional experience:
2002-2007. Institute of oil and gas (senior lecturer, docent of department);
2008-2014. Kazakh research Institute of processing industry (researcher, senior researcher, leading researcher);
2014-2015. S. Seifullin Kazakh agro technical university (senior teacher, a.a. of docent);
from 2016. L.N. Gumilyov Eurasian national university (a.a. of docent, Associate Professor);
2024–2025: Trainee at the University of Reading. Reading, England. (Bolashak International Scholarship Program).

Awards:
1. Certificate of Honor from the Kazakhstan Sectoral Trade Union of Education and Science Workers "For contribution to the development of higher education..." (2017);
2. Certificate of Honor from the Rector of L.N. Gumilyov Eurasian National University (2018);
3. 1st Degree Diploma from the "Bilim Orkenieti" National Innovation Research Center (2020);
4. Certificate of Honor from the Republican Scientific and Practical Center for Educational Content Expertise of the

Scientific degree, title, scientific school:
candidate of biological sciences, corresponding member of the KAAS (Kazakh Academy of Agricultural Sciences).

- Kazakh National University named after Al-Farabi, biological faculty, specialty: biology, 1997;
- Kazakh National University named after Al-Farabi Kazakh National University (MA), biological faculty, specialty: biology, 2002;
- Institute of Microbiology and Virology, specialty: microbiology (post-graduate), 2005.

Scientific interests: General and applied microbiology. Technology for the preparation of biologically active additives and dry biologically active additives based on probiotic microorganisms. Food Biotechnology. Biotechnology of Agricultural Raw Material Processing.

Research Grants:
Participation in research works (projects):

1. Technology for obtaining a dry biologically active additive based on the composition of lactic acid and bifidobacteria from camel milk (2010-2012);
2. Technology for the preparation of starter for ensiling succulent feed (2012-2014);
3. Isolation and study of strains of starter cultures for new fermented milk drinks from camel milk (2014-2015);
4. Reducing the anthropogenic impact on water resources when using water recycling technology (2018);
5. Studies of the protective antiviral mechanisms of plants under the influence of salt stress in *N. benthamiana* and barley (2019);
6. Research on multisystem plant protection under combined stress (2025).

Delivered courses: General Microbiology. Industrial Microbiotechnology. Sanitary and Veterinary Microbiology.

Publications (selected):

1. **Utemurat Sagyndykov**, Zubaira Kozhakhmetova, Gulmira Kasenova. Storage features of *Lactobacillus brevis* strain №9. – Technology Transfer and Innovation International Conference, 5-6 November, 2012. – Prague, Czech Republic. – Volume 1. – Issue 1. – December 2012. – pp.129-130.

2. Ramza Berzhanova, Akmaral Sartaeva, **Utemurat Sagyndykov**, Togzhan Mukasheva, Maya Shigaeva. The studying of diversity of lactic microorganisms isolated from shubat of various areas of Kazakhstan. - Journal of Biotechnology. - Volume 185. - Supplement. - September 2014. - Page S82

3. Danileiko Yu K., Lukanin V. I., Altukhov Evgeny L., …**Sagyndykov Utemurat Z.**, Belov Sergej V. Therapy of pressure sores via activation of regenerative processed in tissues by low-temperature glow-type plasma discharges of glow type. – Opera Medica et Physiologica. – Open source preview, 2022, 9(3), pp. 15–30

4. Imanbayeva Madina, Masalimov Zhaksylyk, Prosekov Alexander, Milentyeva Irina, **Sagyndykov Utemurat**. Fermentation Conditions of *Lactobacilli* for the Production of Lactose-Free Starter Culture. – OnLine Journal of Biological SciencesOpen source preview, 2024, 24(2), pp. 282–294

Ministry of Education and Science of the Republic of Kazakhstan "For development in the field of education and high competence in the expert review of textbooks and educational-methodological complexes" (2021); **5.** Letter of appreciation from the Minister of Science and Higher Education of the Republic of Kazakhstan (2026).	**5.** Sultanova Madina, **Sagyndykov Utemurat**, Sadvakas Aigerim, Botbayeva Madina, Akzhanov Nurtore. Optimization of ultrasonic extraction of Juglone-containing polyphenols from *Juglans regia L.* for functional food applications. – Functional Food ScienceOpen source preview, 2026, 6(5), pp. 262–278 **6.** Nurtore Akzhanov, Ainur Zheldybayeva, **Utemurat Sagyndykov**, Madina Sultanova, Aigerim Saduakas, Madina Yakiyayeva, Bauyrzhan Iztayev. Development of functional freeze-dried dairy products based on camel's and mare's milk enriched with probiotic lactic acid bacteria and walnut shell extract. - Functional Food ScienceOpen source preview, 2026, 6(8), pp. 439–466 **Monographs and study guides:** 1. Sagyndykov U.Z., Sagyndykova S.Z. Microbiology of forage ensiling. - (monograph) - Publisher: Medet Group LLP - Karaganda, 2021. - 96 p. 2. Sagyndykov U.Z. etc. Sanitary microbiology. (textbook) - Publisher: AtGU. - Atyrau, 2012. -183p. 3. Sagyndykov U.Z. Practical training in biotechnology (educational manual). - Publisher: ENU named after L.N. Gumilyov. - Nur-Sultan, 2019. - 135p. 4. Sagyndykov U.Z., Sultanova N.Zh. Bacterial Strains for Succulent and Compound Feeds and Plant Protection (Monograph). – Smart Astana LLP. – Astana, 2025. – 220 p. **Protective documents:** **1.** Innovative patent of the Republic of Kazakhstan №24982. «A method of preparing a dry dietary supplement». - 17.11.2011 **2.** Innovative patent of the Republic of Kazakhstan №25088. «Consortium of lactic acid bacteria *Lactobacillus acidophilus* KM-2, *Lactobacillus acidophilus* KH-1, *Bifidobacterium bifidum*-1, used for the preparation of biologically active additives and starter cultures for the production of fermented milk products». - 15.12.2011 **3.** Innovative patent of the Republic of Kazakhstan №28658. «Feed additive for lambs». - 15.07.2014 **4.** Innovative patent of the Republic of Kazakhstan №29355. «Method for preparing fermented milk drink from camel milk». - 25.12.2014 **5.** Patent of the Republic of Kazakhstan for utility model №102809. «Method for determining the index of structure formation». - 08.11.2017 **6.** Patent of the Republic of Kazakhstan for utility model №6752. «Method for producing fermented milk drink from camel milk». - 15.12.2021 **7.** Patent of the EAPO (Eurasian patent organization) №043740. Method for producing a fermented milk beverage from camel milk. – 19.06. 2023