



**Maral Kulataeva**

Senior Lecturer

**Email:**

kulataeva\_2017@mail.ru

**phone:** +7708 111 39 07

**Professional experience:**

2016 –till present: Senior Lecturer the Department of Microbiology and Biotechnology.

**Awards:**

**Scientific degree, scientific school:**

Master of Science with a degree in Biotechnology, L.N.Gumilyov Eurasian National University

Undergraduate degree in Biotechnology, Kazakh National Agrarian University

**Scientific interests:**

Molecular biology, biochemistry, bioinformatics

**Grants (participation):**

2021-2023 "Development of innovative biotechnology for obtaining environmentally friendly aquatic bioculture products for integration into the scientific and educational process" (GF MES RK,)

2018-2020 "Study of biochemical mechanisms for improving salt tolerance and drought tolerance of plants by presowing seed priming in the presence of Kazakhstani diatomite"

2014-2017: "Study of xanthine oxidase stimulation to convert toxic nitrates and nitrites into useful nitric oxide in camel, mare and goat fresh milk"

**Delivered courses:**

Plant biotechnology, objects of biotechnology, basics of biotechnology, cell biology, food biotechnology, biochemistry, medical biotechnology, biotechnology of microorganisms and others

**Publications (selected):**

1.M.S. Kulataeva, K.M. Aubakirova, E.K. Zhamalov, K.K. Aitlesov, Z.A. Alikulov. Fundamentals of biotechnology for obtaining environmentally friendly products of aquabioculture// Materials of the international scientific and practical online conference "Modern problems of natural sciences and interdisciplinary research", Atyrau, 2021. - P.32-36. <https://asu.edu.kz/science/conference/2016/10759/>

2.M.S. Kulataeva, M.Zh. Satkanov, A.A. Kambarbekova, K.M. Aubakirova, Z.A. Alikulov. Water quality, pH and nutrient balance in aquaponic devices // Proceedings of the international scientific and practical conference "Actual problems of microbiology, biotechnology and biodiversity", dedicated to the 30th anniversary of the Independence of the Republic of Kazakhstan, Nur-Sultan, 2021 - P. 131-137. <https://enu.kz/downloads/oktyabr-2021/sbornik-konf-fen.pdf>

3.M.S.Kulataeva, N.S. Sultangereeva, M.Zh. Satkanov, K.M. Aubakirova, Z.A. Alikulov. Kazakhstandagy aquaponics endirisi men narygynyn mymkindikterin bagalau zhane damytu// Proceedings of the international scientific-practical conference "Actual problems of microbiology, biotechnology and biodiversity", dedicated to the 30th anniversary of Independence of the Republic of Kazakhstan, Nur-Sultan, 2021 -C. 138-141. <https://enu.kz/downloads/oktyabr-2021/sbornik-konf-fen.pdf>

4.M.S. Kulataeva, K.M. Aubakirova, M. Zh. Satkanov, N.S. Sultangereeva, Z.A. Alikulov. Prerequisites for the development of biotechnology for the production of environmentally friendly products of aquabioculture// Biological Sciences of Kazakhstan.-2021.-№3.-p.46-53. <https://ppu.edu.kz/ru/biologicheskie-nauki-kazaxstana-2021>

5. Kulataeva M., Alikulov Z.A., Naekova S.K. Biochemical mechanisms of the improvement of plant tolerance to the salinity and drought by the diatomite // Bulletin of the L.N. Gumilyov, series of biological sciences.-2018.-№2 - P.41-48.

6. Kulataeva M., Satkanov M., Myrzabaeva M., Naekova S., Insepov Z., Alikulov Z. Influence of diatomite on salt tolerance and drought tolerance of cereal seedlings// Biological Sciences of Kazakhstan.- No. 2.- 2017. - P. 105 - 114.

7. M. Kulataeva, Alikulov Z., S. Naekova, M. Satkanov, M. Myrzabaeva, Z. Insepov. 2017. Influence of diatomite on salt tolerance and drought tolerance of cereal seedlings. Biological Sciences of Kazakhstan. No. 2. Page 105-114.

8. Kulataeva M., Dyussebayev K., Kussainova A., Shalakhmetova G., Alikulov Z. 2016. Study on nitrate and nitrite reducing activity of mare's milk and their seasonal changes. Massachusetts Review of Science and Technologies. "MIT Press". № 1 (13), January – June, 2016. Vol.VII. P.857-862.

9. Kulataeva M., Dyussebayev K., Alikulov Z. 2016. Xanthine oxidase of camel milk harbors nitrate and nitrite reducing activities. East European Scientific Journal. Vol.3. №7(11) P.114-116.

10. Kulataeva M., Dyussebayev K, Alikulov Z. 2016. New biological role of animal milk xanthine oxidase in detoxification of nitrate and nitrite and in the formation of physiological important nitric oxide. «Novation» №6. Pp. 5-10.

11. Кулатаева М., Дюсембаев К., Шалахметова Г., Аликулов З. 2016. Новый быстрый метод определения молибдена ксантинооксидазы молока животных. Вестник КазНУ им. Аль-Фараби. №3(68): 134-142.

12. Kulutaeva M.S., Dyussebayev K.A., Kussainova A.A., Alikulov Z. Nitrate- and nitrite reducing activity of xanthine oxidase in goat, camel and horse milk. European Journal of Natural History. № 5, 2015. 6-10.