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Of Biotechnology and Microbiology at  
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**Professional experience:**

2. Lecturer of the department "Chemistry and biology" 2007-2008.
3. Laboratory assistant. Kazakh Peoples' Friendship University 2008-2009
4. Master's degree at SKSU named after. M.Auezova 2009-2012
5. Researcher of SKSU named after. M. Auezov. 2012-2013
6. Teacher of the department "Biotechnology and Microbiology"
7. ENU them. L.N. Gumilyov. from 2013 to 2017
8. 2017-2020 Doctorate at ENU them. L.N. Gumilyov
9. Biotechnology and microbiology» ENU them. L.N. Gumilyov. since 2020

**Scientific degree, title , scientific school**

2002-2006-Bachleors degree «Chemistry and biology»  
M.Aueyzov South Kazakhstan State University  
2009-2011-Masters degree "Biology" M.Aueyzov South  
Kazakhstan State University  
2017-2020-PhD student of biology, L.N.Gumilyov ENU

**Research interests:** Plant biochemistry, BAS from  
microorganisms and plants.

**Publications:**

1. Innovative patent of the Republic of Kazakhstan "Method of processing phosphorus-containing waste with extraction of La, Te and Ce" No. 85435. 2013.
2. Certificate of entry of information into the State Register of rights to objects protected by copyright No. 9733 dated May 11, 2020. A method for increasing seed germination, the resistance of their seedlings to salinization and obtaining allantoin from germinated seeds
3. Alikulov Z., S. Naekova, M. Satkanov, M. Myrzabayeva, Z. Insepov, M. Kulatayeva. 2017. The effect of diatomite on salt resistance and drought resistance of cereal seedlings. Biological Sciences of Kazakhstan. No.2. Pp. 105-114.
4. Alikulov Z.A., Naekova S.K., Kulataeva M. Biochemical mechanisms of the improvement of plant tolerance to the salinity and dropped by the diatomite // Bulletin of the L.N. Gumilyov Eurasian National University, Biological Sciences series.-2018.-No.2 – pp.41-48.
5. Shalakhmetova G.A., Nayekova S., Sagi M., Alikulov Z.. The effect of presenting saturation with molybdenum and the presence of nitrate on the allantoin content in sprouted wheat grains. // International Journal of Biology and Chemistry 11, № 1, 41 (2018) – C.41-48.
6. Alikulov Z.A., Naekova S.K., Satkanov M., Isaeva A.U., Aubakirova K.M., M.T. Myrzabayeva Comparative characteristics of various samples of Mugalzhar diatomite// Bulletin of the L.N. Gumilyov Eurasian National University, biological series.- 2018.-No. 4.-p.33-40
7. Alikulov Z.A., Boguspaev K.K., Faleev D.G., Naekova S.K., Aubakirova K.M. The influence of different concentrations of diatomite on the degree of microtrophy of barley *Hordeum vulgaris* L// Bulletin of the L.N. Gumilev Eurasian National University, biological series.-2018.-No. 4.-pp. 26-32
8. Alikulov Z.A., Naekova S.K., Aubakirova K.M. Influence of the optimal method of pre-sowing priming of seeds in the presence of diatomite on the growth and development of barley seedlings (*Hordeum vulgare* L.) and the content of proline in them under salinization conditions // Bulletin of the L.N. Eurasian National University Gumilyova, biological series.- 2019.-No.4.- pp.35-42.
9. Naekova S. K., Aubakirova K. M, Shalakhmetova G., Dzemiidchik V.V., Alikulov Z. A. The effect of pre-sown priming of barley seeds in the solutions of different salts in the combination with diatomite on allantoin content in roots seedlings under saline conditions// Bulletin of the NAS RK. - No.1.-2020.- pp.97-105 Nayekova, S.K., Aubakirova, K.M., Aitlessov, K.K., Demidchik, V.V., Alikulov, Z.A. Impact of

diatomite priming of seeds of hordeum vulgaris in salinity  
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