



Zerekbay Alikulov

professor

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Professional experience:

2005 - till Professor of the Department of biotechnology and Microbiology of the L. N. Gumilyov Eurasian national University,

1999-2005: head of the Department of biology and ecology of the L. N. Gumilyov Eurasian national University,

1994-1999: visiting scholar at Ben-Gurion University in Beersheba (Israel),

1992-1994: leading researcher At the Institute of molecular biology and biochemistry named after M. A. Aitkhozhin,

1990-1992: research work at the University of Bayreuth as an Alexantra-von-Humboldt fellow (Germany),

1983-1992: senior, then leading researcher At the Institute of molecular biology and biochemistry named after M. A. Aitkhozhin

Scientific degree, scientific school:

candidate of biological Sciences, associate Professor. Kazakh state University, faculty of biology, M. A. Aitkhozhin Institute of molecular biology and biochemistry

Scientific interests:

Metalloenzymes, biologically active substances, phytoremediation

Grants (participation):

Grant INCO-Copernicus IC15-CT98-0136 (DG12-MZCN), Project PL 95135: "Improving the resistance of legume shrubs to environmental stress". 1998-2002. It was funded by the EU INCO-Copernicus Foundation. USAID project CA16-024: "molybdenum Enzymes and plant resistance to salinity". 1995-1998. It was funded by the USAID Foundation (USA).

USAID project CA17-018: "soil Purification from heavy metal radionuclides using higher plants". 1999-2002. It was funded by the USAID Foundation (USA).

USAID project CA20-036: "Prevention of pre-harvest germination of cereals". 2001-2005. Funded by the USAID Foundation (USA). USAID project CA21-026: "The use of plants for the recovery of saline soils in Central Asia". 2003-2006. Funded by the USAID Foundation (USA).

Head of the project "Study of the mechanisms of action of molybdenum enzymes in plant resistance to pathogens in salinization conditions" in the period 2011-2014.

Project Manager "Study of xanthine oxidase stimulation for converting toxic nitrates and nitrites into useful nitric oxide in the fresh milk of camels, mares and goats" 055 "Scientific and / or scientific and technical activities" sub-program 101 " Grant funding for research for 2015-2017»

Head of the project "Study of biochemical mechanisms for improving salt tolerance and drought tolerance of plants by pre-sowing priming of seeds in the presence of Kazakhstan diatomite". 055 "Scientific and / or scientific and technical activities" sub-program 101 " Grant financing of scientific research for 2018-2020»

Delivered courses:

Biochemistry (B), Engineering Enzymology (B)**Authors courses:** Biochemical bases of oxidative stress (M)

Publications (selected):

1. Babenko O. N., Brychkova G, Sagi M, Alikulov Z. A. 2015. Molybdenum application enhances adaptation of crested wheatgrass to salinity stress. Acta Physiologiae Plantarum 37 (2), 1-13 (IF= 1.927). DOI 10.1007/s11738-014-1757-8,Q2

2. Alikulov, Z., Mukhamedzhanova, A.S, Shalakhmetova, G.A., Antipov, A.N., Isayeva, K.S., Kazhybayeva, G.T. Activation and determination of molybdenum of xanthine oxidase //Malaysian Journal of

Awards:

Winner of the MES grant 2006:
"Best University teacher»

Biochemistry and Molecular Biology Volume 22, Issue 1, 2019, Pages 97-105. Q4, SJR -0.12

3. S. K. Nayekova, K. Aubakirova, K. K. Aitlessov , V. V. Demidchik, Z. A. Alikulov. 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 //Вестник НАН РК. - №1.-2020.-С.97-105.

4. 5. Naekova S. K., Shalakhmetova G., Dzemidchik V.V., Alikulov Z. A. Aubakirova K. Impact of diatomite priming of seeds of hordeum vulgaris in salinity // Eurasia J Biosci 14, 705-712 (2020) SJR-0,138

5. Mukhamejanova, A.S., Alikulov, Z. A., Kazhibayeva G.T., Tuganova B.S., Adamzhanova Zh. A. Effect molybdenum and tungsten on the activity of xanthine oxidase manifestation//Periódico Tchê Química. ISSN 2179-0302. (2020); vol.17 (n°36) - (в печати), Q1, SJR-0.69