



Zhaksylyk K. Masalimov  
PhD, Associate Professor of the Department of  
"Biotechnology and Microbiology" at ENU named  
after L.N. Gumilyov

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*Experience*

2004-*present*: associated professor at the in L.N.  
Gumilev Eurasian National University (Astana,  
Kazakhstan)  
2003-2004 - Head of Antibrucellosis Drug  
Laboratory at the Institute of Industrial  
Biotechnology (Stepnogorsk, Kazakhstan);  
1999-2003 - Research Assistant at the Institute of  
Theoretical and Experimental Biophysics  
(Pushchino, Russia);  
1997 – 1999 - Superior Laboratory at the  
Assistant Institute of Theoretical and  
Experimental Biophysics (Pushchino, Russia).

**Academic degree and title:** Candidate of  
Biological Sciences (030004-biochemistry),  
acting associate professor.

**Scientific school:** Semey State University  
(specialty - veterinary medicine, Semipalatinsk).  
Pushchino State University (specialty -  
"biophysics", Pushchino)

**Research interests:** oxidative stress.

**Grants: 2018-2020** - "Development of viral  
infection in plants under conditions of  
temperature stress" (Project Manager, No.  
AP05135485).

**Lectures:** Genetic and chromosomal  
engineering, Protein engineering, Methods of  
immunological research, Mechanisms of  
regulation of free radical processes

**Publications:**

1. Batyrshina Z., Yergaliyev T.M., Nurbekova Z,  
Moldakimova N.A, **Masalimov Z.K.**, Sagi M,  
Omarov, R.T. Differential influence of  
molybdenum and tungsten on the growth of  
barley seedlings and the activity of aldehyde  
oxidase under salinity. Journal of Plant  
Physiology Volume 228, September 2018, Pages  
189-196
2. Yergaliyev TM, Nurbekova Z, Mukiyanova G,  
Akbassova A, Sutula M, Zhangazin S, Bari A,  
Tleukulova Z, Shamekova M, **Masalimov ZK**,  
Omarov RT. The involvement of ROS producing  
aldehyde oxidase in plant response to  
Tombusvirus infection. Plant Physiol Biochem.  
2016 Sep 2;109:36-44. doi:  
10.1016/j.plaphy.2016.09.001.
3. Bruskov V.I., Yaguzhinsky L.S., **Masalimov  
Z.K.** Chernikov A. V., Emelyanenko V.I.,

Gudkov S.V. The continuous generation of hydrogen peroxide in water containing very low concentrations of unsymmetrical dimethylhydrazine. *Molecular Biophysics*. Biophysics July 2015, Volume 60, Issue 4, pp 553-558

4. **Masalimov Zh.K.**, Malakhova L.V., Bruskov V.I., Bogatova V.S. and Gaziev A.I. Study of formation and repair of 8-oxoguanine in DNA of liver and brain of mice after  $\alpha$ - irradiation. // *Radiating biology. Radioecology*. 2003. 43(6) P. 658-661.

5. Bruskov V.I., Malakhova L.V., **Masalimov Zh.K.** and Chernikov A.V. Heat-induced formation of reactive oxygen species and 8-oxoguanine, a biomarker of the damage to DNA. // *Nucleic Acid Research*. 2002. Vol. 30(6). P. 1354-1363.