



**Alua Akbassova**

**Current position:**

acting associate Professor of the Department of Biotechnology and Microbiology, senior researcher at the laboratory of plant Biotechnology at the L. N. Gumilyov ENU  
Degree: PhD

Contact details:

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**Academic degree, scientific school:**

Bachelor course: Al –Farabi Kazakh national University, specialty "biology 050607" 2008y.

Master's degree: Al –Farabi Kazakh national University, specialty "biology 6N0607" 2011y.

Doctoral studies: L. N. Gumilyov ENU, specialty "biology-6D060700" 2014y.

Scientific interests are aimed at fundamental research in the field of molecular biology, biochemistry, phytopathology and plant physiology in the direction of studying the molecular mechanisms of plant resistance to stress factors. **H-index – 2** (<https://www.scopus.com/authid/detail.uri?authorId=57191072626>).

**Scientific grants**

-2018-2020 - senior researcher of grant projects «AP05135013 «The involvement of ROS producing Mo-enzymes in root development and stress tolerance of plants», AP05135633 «The influence of virus protein determinants on acquired resistance of plants and generation plant seed material with pre-programmed resistance to the viral infection» and project 2 “Studies of the protective antiviral mechanisms of plants under the influence of salt stress in *N. benthamiana* and barley” in the frame of program BR05236574 “The use of adaptive mechanisms of plants in the development of modern technologies for obtaining agricultural crops resistant to stress factors”.

-2015-2017 - researcher of grant projects "Participation of viral suppressors of RNA interference in the activation of an" oxidative burst "in plants during viral infection", "Development of biotechnological foundations for the creation and monitoring of genetically modified plants with improved economically valuable traits" and in the program O.0677 "Development biotechnology for the creation of transgenic plant lines using targeted suppression of RNA interference by a virus suppressor protein ".

-2013-2015 - researcher of grant project "Influence of viral suppressor of RNA interference on SA-induced defense system of plants against viral pathogens".

- 2012-2014 - Executive in charge, researcher of grant project "Molecular and biochemical components of the RNA interference mechanism and their interaction with viral suppressors".

**Courses:** Epigenetics (M), Genomics (b), animal Cell engineering (B), General and molecular genetics (B), Embryoengineering (B), Transgenic animals (B), Molecular biotechnology (B), Molecular biology (B), Protein engineering (M), Molecular genomics( M), human and animal Physiology (B)

**Main publications:**

1. 1. co-owner and co-author of the following utility model patents of the Republic of Kazakhstan: №3624, №2039 и № 5233;
2. Akbassova A.Zh. Cultivar specific influence of TBSV infection on tomatoes. Herald ENU (2018). - № 4 (125). – P. 8-19.
3. Akbassova A.Zh., Yermukhambetova R.Zh., Mukiyanova G.S., Tleukulova Zh.B., Kassenova S.M., Dildabek A.B., Ilyasova B. B, Stamgaliyeva Z.B., Omarov R.T. TBSV P19 protein as a trigger of salicylic acid-induced resistance of *Solanum lycopersicum* // Bulletin of L.N. Gumilyov Eurasian National University. – №

**Профессиональный опыт:**

2013 - present – associate professor at the Department of Biotechnology and Microbiology and senior researcher of Laboratory of Plant Biotechnology at L.N Gumilyov ENU.

**1.11.13-1.12.13**

Jaume University, laboratory of Phytopathology

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| <p>Castellon, Spain</p> <p><b>22.09.12-22.03.13</b> "Zaidin Experimental research center", laboratory of soil Microbiology and symbiotic systems. Granada, Spain</p> <p><b>01.01. 2010-15.08. 2010</b> "research Institute of Problems of biology and biotechnology", "Laboratory of molecular biology and genetic engineering" position -art. laboratory assistant, Almaty city</p> <p><b>1. 10. 2008-1.10. 2009</b> research Institute of "Problems of biological safety". "Laboratory of molecular biology and genetic engineering of viruses" Position- senior laboratory assistant. Gvardeysky, Zhambyl region.</p> | <p>02(123)/2018. – P. 8-18</p> <p>4. M. Yu. Sutula, A. Zh. Akbassova, T. M. Yergaliev, Zh. A. Nurbekova, G. S. Mukiyanova, R. T. Omarov. Endowing Plants with Tolerance to Virus Infection by Their Preliminary Treatment with Short Interfering RNAs // Russian Journal of Plant Physiology, 2017. - Vol. 64, No. 6. - P. 939–945.</p> <p>5. G.S. Mukiyanova, A. Zh. Akbassova, Maria J. Pozo, R.T. Omarov. Tomato bushy stunt virus (TBSV) encoded Capcid protein P41 triggers resistance in Solanum lycopersicum // News of the National academy of sciences of the Republic of Kazakhstan. – Almaty, 2017. – Vol. 1. №. 319. – P. 34-43.</p> <p>6. Timur Yergaliyev, Zhadyrassyn Nurbekova, Gulzhamal Mukiyanova, Alua Akbassova, Maxim Sutula, Sayan Zhangazin, Assyl Bari, Zhanerke Tleukulova. The involvement of ROS producing aldehyde oxidase in plant response to Tombusvirus infection // Plant Physiology and Biochemistry. – Netherlands, 2016. – Vol. 2, - №. 109. – P. 36-44.</p> <p>7. Akbassova A., Omarov R., Pozo M., Sutula M., Mukiyanova G. Host-dependent symptom development as affected by Tomato bushy stunt virus encoded silencing suppressor // APS-CPS Joint Meeting-2014. - Minneapolis, Minnsota, U.S.A, 2014. IF-2.9</p> |
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