



Alena Litvinenko
Senior Lecturer

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Professional experience:

2021 –to present – Senior Lecturer,
Department of General Biology and
Genomics, L.N. Gumilyov Eurasian
National University

2015-2020 – Senior Researcher,
Institute of Cell Biology and
Biotechnology, L.N. Gumilyov
Eurasian National University

2012-2015 – Junior Researcher,
Laboratory of Biotechnology and
Plant Breeding, National Centre for
biotechnology.

2011-2012 – Laboratory Assistant,
Department of General Biology and
Genomics, L.N. Gumilyov Eurasian
National University.

Scientific degree, scientific school:

PhD in biology, L.N. Gumilyov Eurasian National University
2016 - Thesis defense at the meeting of the Dissertation Council
"6D060700 - Biology", L.N. Gumilyov Eurasian National University.
2014 - Research internship at the Jean-Pierre Bourgin Institute
(INRA) (Versailles, France).
2012 – PhD in Biology, L.N. Gumilyov Eurasian National University.
2012 - Lecture course named "European innovative systems in
biotechnology" at the BARAR International Institute of Business and
Communications (Prague, Czech Republic).
2011 - scientific training at the University of Technology Malaysia
(UTM)
2010 – Master in Biology, L.N. Gumilyov Eurasian National
University.
2006 – Bachelor in Biotechnology, L.N. Gumilyov Eurasian National
University.

Scientific interests:

Plant Physiology, Molecular Biology

Grants:

2015-2017 «Studying the role of pTOR signaling pathway in the
formation of plant resistance to salt stress»

Delivered courses:

Plant Physiology (B). Molecular Biology (B). Genetic Engineering
(M).

Publications (selected):

Role of the TOR(Target Of Rapamycin) kinase in the regulation of
nitrogen metabolism in Arabidopsis // EMBO conference: The nitrogen
nutrition of plants. – Montpellier (France), 2016. - P. 178.

The role of the TOR signaling system in Arabidopsis thaliana under salt
stress // Materials of the All-Russian Scientific. confer. with int.
participation "Factors of resistance of plants and microorganisms in extreme
natural conditions and technogenic environment." - Irkutsk (Russia), 2016.
– P.14-15.

TOR signaling in plants // Bulletin of National Academy of Sciences of
the Republic of Kazakhstan (biological and medical series). -2016. - №2
(314). - P.125-137

Mutation in the Arabidopsis *Lst8* and *Raptor* genes encoding partners of
the TOR complex, or inhibition of TOR activity decrease abscisic acid
(ABA) synthesis // Biochem Biophys Res Commun. – 2015. – Vol. 467. -
P.- 992 - 997(**IF– 2,297**)

Effect of a mutation in the AtTOR gene on the activity of ABA
biosynthetic enzymes in Arabidopsis thaliana under salt stress.//
Proceedings of the International Scientific Conference on Plant Biology and
Biotechnology. - Almaty: 2014 - P. 416-417

The role of the TOR signaling system in the mechanisms of resistance of
Arabidopsis thaliana plants to salt stress // Bulletin of KazNU.-2013.-№3/1
(59) - P.125