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Senior lecturer

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Professional experience:

2020.10 - Senior Lecturer, Department of Biotechnology, Microbiology, Gumilyov Eurasian National University, Nursultan
2018-2020 - Senior Lecturer, Department of Biotechnology, Al-Farabi KazNU
2018-2019 – Research associate, Cell Engineering Laboratory, Institute of Biology and Biotechnology, Almaty
2013-2018 - Lecturer of the Department of Biotechnology of Microbiology, Gumilyov Eurasian National University, Astana
2010 -2018 - Researcher on projects of fundamental research of the laboratory of plant biotechnology, under the leadership of Dr. Omarov R.T., Gumilyov Eurasian National University

Awards:

Scientific degree, title, scientific school: Doctor PhD (6D060700 - Biology), L.N.Gumilyov Eurasian National University, biotechnology

Scientific

Plant Biotechnology, Molecular Virology, Phytopathology, Virus diagnostics

interests:

Research Grants:

2020-2021 AP08957713 "Development of a new spectrophotometric method for determining viral plant diseases"

Delivered courses:

Plant biochemistry, Phytopathology, Immunogenetics, Mechanisms of apoptosis and necrosis, Pharmgenetics and molecular diagnostics

Author's courses:

Publications (selected):

- 1 Mukiyanova G. New breakthrough CRISPR / Cas9 biotechnology of genome editing for creation of elite barley cultivars in Kazakhstan // Journal of Biotechnology. 2019. <https://doi.org/10.1016/j.jbiotec.2019.05.079>
CiteScore Percentile in Scopus = 53
- 2 Kershanskaya, O., D. Nelidova, G. Esenbaeva, G. Mukiyanova, A. Karabekova, and S. Nelidov. 2019. "New breakthrough CRISPR / Cas9 biotechnology of genome editing for creation of elite barley cultivars in Kazakhstan." European Biotechnology Congress 2019 305: S19–20. <https://doi.org/10.1016/j.jbiotec.2019.05.079> .
- 3 Arailym Bertleuova, Gulzhamal Mukiyanova, Zhaniya Batyrshina, Sayan Zhangazin. Resistance of plants to viral pathogen as affected by expression of modified suppressor of RNA interference // Conference proceedings: Modern approaches and methods in plant protection (November, 2018, Ekaterenburg, Russia) –V.1 - P. 98-99.
- 4 Mukiyanova G.S., Akbassova A.Zh., Maria J. Pozo, Omarov R.T. TBSV encoded capsid protein p41 triggers resistance in Solanum lycopersicum // News of the national academy of sciences of the Republic of Kazakhstan. - 2017. - V.1, No. 319. - P. 34-43.
- 5 Sutula, M. Yu., A. Zh. Akbassova, T. M. Yergaliev, Zh. A. Nurbekova, G. S. Mukiyanova, R. T. Omarov. 2017. "Endowing plants with tolerance to virus infection by their preliminary treatment with short interfering RNAs". Russian Journal of Plant Physiology 64 (6): 939–45. <https://doi.org/10.1134/S1021443717060103>. Scopus CiteScore Percentile = 74
- 6 Yergaliyev, Timur M., Zhadyrassyn Nurbekova, Gulzhamal Mukiyanova, Alua Akbassova, Maxim Sutula, Sayan Zhangazin, Assyl Bari, et al. 2016. "The Involvement

of ROS Producing Aldehyde Oxidase in Plant Response to
Tombusvirus Infection." *Plant Physiology and Biochemistry*:
PPB 109 (Dec): 36-44.
<https://doi.org/10.1016/j.plaphy.2016.09.001>.

Patents

1 Pat. for invention 34330 Method of genetic transformation of barley / Esenbaeva Gulvira Lemisovna, Olga Ivanovna Kershanskaya, Mukiyanova Gulzhamal Slyamgazievna, etc .; publ. 15.05.2020, Bulletin No. 19.
<https://gosreestr.kazpatent.kz/>

2 Pat. for utility model 3684 RK. Method for determining viral infection in plant tissues by express method / Omarov Rustem Tukenovich, Masalimov Zhaksylyk, Shamekova M.Kh., Ergaliev T.M., Zhangazin S.B., Mukiyanova G.S. and etc.; publ. 02/22/2019, Bulletin No. 8.

3 Pat. for utility model 2039 RK. Method of isolating viral particles from infected plant material in preparative quantities by express method / Omarov Rustem Tukenovich, Akbasova Alua Zholdasbaevna, Mukiyanova Gulzhamal Slyamgazievna; publ. 28.02.2017, Bulletin No. 4.-4s.

