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Department of Biotechnology and Microbiology
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Academic degree and title: doctor of philosophy in Biology (PhD), acting associate Professor of the Department

Scientific school:

– Bachelor's degree (2006-2010) – S. Toraighyrov Pavlodar state University, Faculty of chemical technology and natural science, Department of chemistry and chemical technologies, specialty Chemical technology of inorganic substances

– Master's degree (2011-2013) - S. Toraighyrov Pavlodar state University, Faculty of chemical technologies and natural Sciences, Department of chemistry and chemical technologies, specialty Chemistry

– Doctorate (2014-2017) - S. Toraighyrov Pavlodar state University, Faculty of chemical technology and natural science, Department of biology and ecology, specialty Biology

Research interests: molecular biology, virology, plant physiology, genetic engineering, biochemistry.

Research grants (contractual works):
Participation in research (projects)

– BR05236574 Use of adaptive mechanisms of plants in the development of modern technologies for obtaining crops resistant to stress factors. Task 02 Research of protective antiviral mechanisms of plants under the influence of salt stress in *N. benthamiana* and barley (2018-2020 г.);

– AP05135013 The involvement of ROS producing Mo-enzymes in root development and stress tolerance of plants (2018-2020 г.);

– AP05135485 The development of viral infection in plants in temperature stress conditions (2018-2020 г.).

Courses taught: animal Biotechnology, Cell biology, Biochemistry, Bioinformatics.

Professional experience:

- 2018 - present - acting Associate Professor of the Department of Biotechnology and Microbiology, ENU L.N. Gumilyov, Nur-Sultan.
- 2017-2018 - Senior Lecturer at the Department of Biology and Ecology, Pavlodar State University named after S. Toraigyrova, Pavlodar city.
- 2015-2017 - Researcher of the Laboratory of Plant Biotechnology on a Contractual Basis, ENU. L.N. Gumilyov, Nur-Sultan.
- 2013-2014 - assistant teacher of the Department of Chemistry and Chemical Technologies, Pavlodar State University named after S. Toraigyrova, Pavlodar city.
- 2011-2013 - engineer, Pavlodar Airport JSC, Pavlodar.
- 2010-2011 - Hydrometallurgist operator, Aluminum of Kazakhstan JSC, Pavlodar.

Awards:

- Diploma "Yermet" from the rector of ENU. L.N. Gumilem for his contribution to the development of university science.
- Letter of thanks from the rector of PSU named after S. Toraigyrov for work in the selection committee.

Title of protection:

1. Omarov R. T., Masalimov Zh. K., Akbassova A. Zh., Mukianova G. S., Sutula M. Yu., Bari A. A., Yergaliyev T. M., Nurbekova Zh. A., Tleukulova Zh. B., Batyrshina Zh. S., Gadzhimuradova A.M., Zhangazin S. B. Method for isolation of viral particles from infected plant material in preparative quantities by Express method // patent for utility model No. 2039.
2. Omarov R. T., Masalimov J. K., Shamekova M. H., Yergaliyev T. M., Zhangazin S. B. Mukianova G. S., Akbassova A. J., Bari, A. A., Nurbekova Zh. A., Tleukulova Zh. B., Batyrshina Zh. S., Bekturova A. Zh. Gadzhimuradova A. M., Sutula M. Yu. Method of determining a viral infection in plant tissues rapid method // Patent for useful model No. 3684.
3. Masalimov Zh. K., Omarov, R. T., M. H. Shamekova, Zhangazin S. B. Bekturova A. Zh, Kurmanbayeva A. B., Akbassova A. J., Yermukhambetova R. Zh., Amanbayeva U. I., Tleukulova J. B., Beisenova M. K., Iksat N. N., Zhanassova K. E., Tokasheva D. S., Gadilgireeva B. Zh. Method for determination of 8-oxoguanine in nucleic acids by express method //

Publications (favorites):

1. Yergaliyev T. M., Nurbekova Z., Mukianova G., Akbassova A., Sutula M., Zhangazin S., Bari A., Tleukulova Z., Shamekova M., Masalimov Z. K., Omarov R. T. The involvement of ROS producing aldehyde oxidase in plant response to Tombusvirus infection // Plant Physiol Biochem. – 2016. – Т. 109. – С. 36-44.
2. Сутула М.Ю., Акбасова А.Ж., Жангазин С.Б., Нурбекова Ж.А., Бари А.А., Тлеукулова Ж.Б., Бейсекова М.К., Ергалиев Т.М., Мукиянова Г.С., Омаров Р.Т. Условия формирования комплексов Р19/siRNA // Научный журнал «Вестник» ЕНУ им. Л.Н. Гумилева. – 2015. – № 4(107). – С. 247-253.
3. Жангазин С.Б. Акбасова А.Ж., Ергалиев Т.М., Нурбекова Ж.А., Сутула М.Ю., Мукиянова Г.С. Амангелді А.Қ., Батыршина Ж.С. Молекулалық биологиядағы соңғы тенденциялар // Научный журнал Вестник ЕНУ им. Л.Н. Гумилева. – 2016. – № 2 (111). – С. 105-124.
4. Мукиянова Г.С., Акбасова А.Ж., Нурбекова Ж.А., Ергалиев Т.М., Жангазин С.Б., Тлеукулова Ж.Б., Батыршина Ж.С. Роль фитогормонов в регуляции антивирусной защитной системы растений // Научный журнал «Вестник» ЕНУ им. Л.Н. Гумилева, – 2016. – № 4 (113). – С. 119-124.
5. Жангазин С.Б., Ахметов К.К. Өсімдік қорғаныс жүйесіне Р19 ақуыз-супрессорының әсері // Научный журнал Вестник ЕНУ им. Л.Н. Гумилева. – 2017. – № 2 (117). – С. 239-243.
6. Жангазин С.Б., Уалиева Р.М. Ақуыздар экспрессиясының өсімдікті жүйесі // Научный журнал Вестник ЕНУ им. Л.Н. Гумилева. – 2018. – № 4 (125). – С. 49-58.
7. Р.М. Уалиева, К.К. Ахметов, С.Б. Жангазин. Процесс формирования скорлупы яиц на примере trematodes *Dendritobilharzia purverulenta* (Braun, 1901) // Научный журнал Вестник ЕНУ им. Л.Н. Гумилева. – 2019. – № 1 (126). – С. 90-95.
8. Бектурова А.Ж., Догабаев А.Ж., Курманбаева А.Б., Жангазин С.Б., Аманбаева У.И., Масалимов Ж.К. Температуралық стрестің Nicotiana benthamiana өсімдіктерінің морфометриялық көрсеткіштеріне әсері // Вестник ЕНУ им.Л.Н.Гумилева. Серия биология. – 2019,-№1(126),-С.31-36.
9. Тараболат А., Омаров Р., Жангазин С., Курманбаева А., Акбасова А. Структурная организация генома вируса полосатой мозаики ячменя (BSMV) и его

идентификация // Вестник Евразийского национального университета имени Л.Н. Гумилева. - 2019. - №4(129). - С. 42-49.

10. М.К. Бейсекова С.Б. Жангазин А. Тлеубек Н.Н. Иксат Р.Ж. Ермухамбетова А.Ж. Акбасова Р.Т. Омаров. Абиотикалық стресс өсерінің арпа өсімдігінің өскін және тамыр жүйесінің дамуына салыстырмалы талдау жасау// Қазақстанның биологиялық тылымдары. – 2020, – №2. – С 34-44..

11. Iksat N.N., Zhangazin S.B., Madirov A.A., Omarov R.T. Effect of molybdenum on the activity of molybdoenzymes. // Eurasian Journal of Applied Biotechnology. – 2020. – №2. – P. 14-23.

12. Dildabek A., Ilyasova B., Stamgaliyeva Z., Madirov A., Kassenova S., Zhangazin S., Massalimov Zh., Akbassova A. Crosstolerant effect of salt priming and viral infection on Nicotiana Benthamiana // Eurasian Journal of Applied Biotechnology. - 2020. - №1. - PP. 70-79.