

Приложение №1  
к письму от 11.04.2022 № 09/1. 39-4155

### Сведения о ведущей организации

по кандидатской диссертации Манахова А.Д. «Геномный анализ представителей семейства куных (Mustelidae)», по специальности 1.5.7 – генетика

Полное наименование организации в соответствии с уставом	Федеральное государственное бюджетное образовательное учреждение высшего образования «Санкт-Петербургский государственный университет»
Сокращенное наименование организации в соответствии с уставом	Санкт-Петербургский государственный университет, Санкт-Петербургский университет или СПбГУ
Ведомственная принадлежность	Правительство Российской Федерации
Почтовый индекс, адрес организации	199034, Санкт-Петербург, Университетская наб. д.7/9
Адрес официального сайта в сети «Интернет»	<a href="http://www.spbu.ru">www.spbu.ru</a>
Телефон	+7 (812) 328-97-01
Адрес электронной почты	<a href="mailto:spbu@spbu.ru">spbu@spbu.ru</a>
Список основных публикаций работников ведущей организации по теме диссертации в рецензируемых научных изданиях за последние 5 лет	<p>1. Shikov A.E., Malovichko Yu.V., Lobov A.A., Belousova M.E., Nizhnikov A.A., Antonets K.S. The distribution of several genomic virulence determinants does not corroborate the established serotyping classification of <i>Bacillus thuringiensis</i> // International Journal of Molecular Sciences, 2021, V.22, e2244. <a href="https://doi.org/10.3390/ijms22052244">https://doi.org/10.3390/ijms22052244</a></p> <p>2. Malovichko Y.V., Shtark O.Y., Vasileva E.N., Nizhnikov A.A., Antonets K.S. Transcriptomic insights into mechanisms of early seed maturation in garden pea (<i>Pisum sativum L.</i>) // Cells, 2020, V.9, e779. <a href="https://doi.org/10.3390/cells9030779">https://doi.org/10.3390/cells9030779</a></p> <p>3. Shikov A.E., Malovichko Y.V., Skitchenko R.K., Nizhnikov A.A., Antonets K.S. No more tears: mining sequencing data for novel Bt Cry toxins with CryProcessor // Toxins, 2020, V.12, e204. <a href="https://doi.org/10.3390/toxins12030204">https://doi.org/10.3390/toxins12030204</a></p> <p>4. Malovichko Y.V., Nizhnikov A.A., Antonets K.S. Repertoire of the <i>Bacillus thuringiensis</i> virulence factors unrelated to major classes of protein toxins and its role in specificity of host-pathogen interactions // Toxins, 2019, V.11, e347.</p>

- <https://doi.org/10.3390/toxins11060347>
5. Malovichko Y.V., Antonets K.S., Maslova A.R., Andreeva E.A., Inge-Vechtomov S.G., Nizhnikov A.A.\* RNA Sequencing reveals specific transcriptomic signatures distinguishing effects of the [SWI+] prion and SWI1 deletion in yeast *Saccharomyces cerevisiae* // Genes, 2019, V.10, e212. <https://doi.org/10.3390/genes10030212>
6. Antonets K.S., Nizhnikov A.A.\* Predicting amyloidogenic proteins in the proteomes of plants // International Journal of Molecular Sciences, 2017, V.18, e2155. <http://dx.doi.org/10.3390/ijms18102155>
7. Malovichko Yury V., Alagov Ruslan O., Shikov Anton E., Predeus Alexander K., Nizhnikov Anton A., Antonets Kirill S. Identical Protein Group content and resequencing statistics as a naive metric of biological assembly quality: An evaluation study and draft tool implementation // BMC Bioinformatics, 2021, V.22 (Suppl 16, Selected abstracts of Bioinformatics: from Algorithms to Applications 2021 conference), e591, P3. <https://doi.org/10.1186/s12859-021-04475-z>
8. Shikov Anton E., Malovichko Yury V., Alagov Ruslan O., Nizhnikov Anton A., Antonets Kirill S. Conservative blocks in C-terminal regions of 3-D Cry toxins exhibit amyloidogenic properties // BMC Bioinformatics, 2021, V.22 (Suppl 16, Selected abstracts of Bioinformatics: from Algorithms to Applications 2021 conference), e591, P9. <https://doi.org/10.1186/s12859-021-04475-z>
9. Malovichko Y., Shikov A., Nizhnikov A., Antonets K. In silico search for the hallmarks of plant-associated phenotypes in *Bacillus* strains // The FASEB Journal (Supplement: Experimental Biology 2021 Meeting Abstracts) V.35, S1, 02293. <https://doi.org/10.1096/fasebj.2021.35.S1.02293>
10. Shikov A., Alagov R., Malovichko Y., Nizhnikov A., Antonets K. The domain exchange between 3-domain Cry toxins contributes to their diversity and specificity // The FASEB Journal (Supplement: Experimental Biology 2021 Meeting Abstracts) V.35, S1, 02351. <https://doi.org/10.1096/fasebj.2021.35.S1.02351>

	<p>11. Shikov A.E., Malovichko Y.V., Nizhnikov A.A., Antonets K.S. Dissecting the evolutionary mechanisms of the 3-domain Cry toxins diversity // BMC Bioinformatics, 2020, V.21 (Suppl 20, Selected abstracts of Bioinformatics: from Algorithms to Applications 2020 conference), e567, P2. <a href="https://doi.org/10.1186/s12859-020-03838-2">https://doi.org/10.1186/s12859-020-03838-2</a></p> <p>12. Malovichko Y.V., Shtark O.Y., Vasileva E.N., Nizhnikov A.A., Antonets K.S. Transcriptomic signatures of seed maturation heterochrony in garden pea (<i>Pisum sativum</i> L) accessions // BMC Bioinformatics, 2020, V.21 (Suppl 20, Selected abstracts of Bioinformatics: from Algorithms to Applications 2020 conference), e567, P10. <a href="https://doi.org/10.1186/s12859-020-03838-2">https://doi.org/10.1186/s12859-020-03838-2</a></p> <p>13. Malovichko Y.V., Shikov A.E., Skitchenko R.K., Nizhnikov A.A., Antonets K.S. In Silico Identification of Novel Cry Toxins and Assessment of Domain-specific Evolutionary Impact on the <i>Bacillus Thuringiensis</i> Toxin Adaptive Radiation // Molecular Biology of the Cell, 2019, V.30, №26 (Suppl. 2019 ASCB Annual Meeting abstracts), P.1689. doi: 10.1091/mbc.E19-11-0617</p> <p>14. Belousov M.V., Shikov A.E., Belousova M.E., Nizhnikov A.A., Antonets K.S. Genomic Determinants Underlying Rodenticidal Properties of the <i>Salmonella Enteritidis</i> var. <i>Issatschenko</i> // Molecular Biology of the Cell, 2019, V.30, № 26 (Suppl. 2019 ASCB Annual Meeting abstracts), P.2607. doi: 10.1091/mbc.E19-11-0617</p> <p>15. Malovichko Y.V., Shikov A.E., Skitchenko R.K., Nizhnikov A.A., Antonets K.S. Revealing mechanisms of <i>Bacillus thuringiensis</i> host specificity via molecular modelling of the Cry toxin-receptor interactions // BMC Bioinformatics, 2019, V.20 (Suppl 17, Meeting Abstracts, BiATA 2019), O6.</p>
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Верно

Директор Центра экспертизы



А.В. Попов