

## Резюме: Завриев Сергей Кириакович



### Адрес

Федеральное государственное  
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Институт биоорганической химии им.  
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### Контакты

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## Образование

1970– 2005	Россия, Москва		Звание член-корреспондента РАСХН (с 2015 года член-корреспондент РАН)
1970– 1996	Россия, Москва		Утверждён в звании профессора
1970– 1985	Россия, Москва	Московский государственный университет имени М.В. Ломоносова (МГУ), биологический факультет	Присуждена учёная степень доктора биологических наук по специальности молекулярная биология
1970– 1975	СССР (Грузия), Тбилиси	Тбилисский государственный университет	Присуждена учная степень кандидата биологических наук по специальности биофизика
1966– 1971	СССР (Грузия), Тбилиси	Тбилисский государственный университет	Диплом биофизика

## Работа в ИБХ

2018–наст.вр.	Заведующий отделом
2018–наст.вр.	Главный научный сотрудник
2018–2025	Заведующий лабораторией

## Членство в советах и комиссиях ИБХ

Методическая комиссия
Ученый совет
Диссертационный совет
Аттестационная комиссия

## Владение языками

русский, английский, немецкий

## Степени и звания

Член-корреспондент РАН
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Профессор

Доктор наук (Биологические науки, 03.00.03 — Молекулярная биология)

## Ссылки и контакты

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## Гранты и проекты

- 2016– [Разработка новых подходов на основе принципов иммуно-ПЦР для детекции и изучения биологически значимых антигенов и антител, обнаружение которых требует сверхвысокой чувствительности](#)
- 2018
- 2022– [Поли\(АДФ-рибоза\) полимеразы \(PARP\) и устойчивость растений к биотическим и абиотическим стрессам](#)
- 2024
- 2019– [Комплексное исследование малоизученных групп штаммов грибов рода \*Fusarium\* с целью установления их таксономического статуса и определения патогенных свойств](#)
- 2021

## Публикации

1. Erokhina TN, Ryabukhina EV, Lyapina IS, Ryazantsev DY, **Zavriev SK**, Morozov SY (2025). Promising Biotechnological Applications of the Artificial Derivatives Designed and Constructed from Plant microRNA Genes. *Plants (Basel)* 14 (3), 325, [10.3390/plants14030325](#)
2. Ryazantsev DY, Gabrielyan NG, Polyakova SM, **Zavriev SK** (2024). Immuno-RCA for highly sensitive detection of the antigen-antibody complex in the blood group antigen model. *Russ J Immunol* 27 (4), 781–787, [10.46235/1028-7221-16921-IRF](#)
3. Stakheev AA, Taliansky M, Kalinina NO, **Zavriev SK** (2024). RNAi-Based Approaches to Control Mycotoxin Producers: Challenges and Perspectives. *J Fungi (Basel)* 10 (10), 682, [10.3390/jof10100682](#)
4. Kalinina NO, Spechenkova N, Ilina I, Samarskaya VO, Bagdasarova P, **Zavriev SK**, Love AJ, Taliansky M (2024). Disruption of Poly(ADP-ribosyl)ation Improves Plant Tolerance to Methyl Viologen-Mediated Oxidative Stress via Induction of ROS Scavenging Enzymes. *Int J Mol Sci* 25 (17), 9367, [10.3390/ijms25179367](#)
5. Stakheev AA, Kutukov RR, Taliansky ME, **Zavriev SK** (2024). Investigating the Structure of the Components of the PolyADP-Ribosylation System in *Fusarium* Fungi and Evaluating the Expression Dynamics of Its Key Genes. *Acta Naturae* 16 (3), 83–92, [10.32607/actanaturae.27450](#)
6. Erokhina TN, Ryazantsev DY, **Zavriev SK**, Morozov SY (2024). Biological Activity of Artificial Plant Peptides Corresponding to the Translational Products of Small ORFs in Primary miRNAs and Other Long “Non-Coding” RNAs. *Plants (Basel)* 13 (8), 1137, [10.3390/plants13081137](#)
7. **Zavriev S**, Borisova O (2024). COVID-19 PANDEMIC: ECONOMIC AND POLITICAL IMPLICATIONS. *Mirovaia Ekon Mezhdunar Otnosheiiia* 68 (3), 128–136, [10.20542/0131-2227-2024-68-3-128-136](#)
8. Timofeev VI, Abramchik YA, Shevtsov MB, Kostromina MA, **Zavriev SK**, Zayats EA, Esipov RS, Kuranova IP (2023). X-ray structure of recombinant house dust mite allergen Der p 3. *MENDELEEV COMMUN* 33 (6), 796–798, [10.1016/j.mencom.2023.10.019](#)
9. Stakheev AA, Uskov AI, Varitsev YA, Galushka PA, Uskova LB, Zhevora SV, **Zavriev SK** (2023). Study of potato Y-virus isolates widespread in various regions of the Russian Federation using new molecular markers. *Zemledelie* (6), 37–40, [10.24412/0044-3913-2023-6-37-40](#)
10. Spechenkova N, Samarskaya VO, Kalinina NO, **Zavriev SK**, MacFarlane S, Love AJ, Taliansky M (2023). Plant Poly(ADP-Ribose) Polymerase 1 Is a Potential Mediator of Cross-Talk between the Cajal Body Protein Coilin and Salicylic Acid-Mediated Antiviral Defence. *Viruses* 15 (6), , [10.3390/v15061282](#)
11. Erokhina TN, Ryazantsev DY, **Zavriev SK**, Morozov SY (2023). Regulatory miPEP Open Reading Frames Contained in the Primary Transcripts of microRNAs. *Int J Mol Sci* 24 (3), 2114, [10.3390/ijms24032114](#)
12. Spechenkova NA, Kalinina NO, **Zavriev SK**, Love AJ, Taliansky ME (2023). ADP-Ribosylation and Antiviral Resistance in Plants. *Viruses* 15 (1), 241, [10.3390/v15010241](#)
13. Simonova MA, Melnikov VG, Lakhtina OE, Komaleva RL, Berger A, Sing A, **Zavriev SK** (2022).

- Determination of Diphtheria Toxin in Bacterial Cultures by Enzyme Immunoassay. *Diagnostics (Basel)* 12 (9), , [10.3390/diagnostics12092204](https://doi.org/10.3390/diagnostics12092204)
14. Samarskaya VO, Spechenkova N, Markin N, Suprunova TP, **Zavriev SK**, Love AJ, Kalinina NO, Taliansky M (2022). Impact of Exogenous Application of Potato Virus Y-Specific dsRNA on RNA Interference, Pattern-Triggered Immunity and Poly(ADP-ribose) Metabolism. *Int J Mol Sci* 23 (14), , [10.3390/ijms23147915](https://doi.org/10.3390/ijms23147915)
  15. (конференция) Ерохина ТН, Рязанцев ДЮ, **Завриев СК**, Морозов СЮ (2022). ПЕПТИДЫ, КОДИРУЕМЫЕ ТРАНСКРИПТАМИ - ПРЕДШЕСТВЕННИКАМИ МИКРО - РНК В РАСТЕНИЯХ. *Общество с ограниченной ответственностью "Институт новых информационных технологий" (Москва)* 30, 78–86, [10.47501/978-5-6044060-2-1.78-86](https://doi.org/10.47501/978-5-6044060-2-1.78-86)
  16. Minaeva LP, Samokhvalova LV, **Zavriev SK**, Stakheev AA (2022). FIRST DETECTION OF FUNGUS *Fusarium coffeatum* IN THE TERRITORY OF THE RUSSIAN FEDERATION. *Selskokhoziaĭstvennaia Biol* 57 (1), 131–140, [10.15389/agrobiology.2022.1.131eng](https://doi.org/10.15389/agrobiology.2022.1.131eng)
  17. Diakite S, Polyakov AV, Stakheev AA, Alekseeva TV, **Zavriev SK**, Said RR (2022). SPECIES COMPOSITION OF FUNGI OF THE GENUS *Fusarium* Link ON GARLIC PLANTS IN MOSCOW REGION. *Selskokhoziaĭstvennaia Biol* 57 (1), 151–157, [10.15389/agrobiology.2022.1.151eng](https://doi.org/10.15389/agrobiology.2022.1.151eng)
  18. Lukianova AA, Evseev PV, Stakheev AA, Kotova IB, **Zavriev SK**, Ignatov AN, Miroshnikov KA (2021). Quantitative Real-Time PCR Assay for the Detection of *Pectobacterium parmentieri*, a Causal Agent of Potato Soft Rot. *Plants (Basel)* 10 (9), , [10.3390/plants10091880](https://doi.org/10.3390/plants10091880)
  19. (конференция) Rogozhin EA, Ryazantsev DY, **Zavriev SK**, Sadykova VS (2021). Novel hevein-like defense peptides from wild cereals. *FEBS Open Bio* 256 (S1), 384, <https://doi.org/10.1002/2211-5463.13205>
  20. (конференция) Barashkova AS, Ryazantsev DY, Sadykova VS, **Zavriev SK**, Rogozhin EA (2021). Thionins from blackseed (*Nigella sativa* L.) with multiple activity. *FEBS Open Bio* (S1), 384, <https://doi.org/10.1002/2211-5463.13205>
  21. Erokhina TN, Ryazantsev DY, Samokhvalova LV, Mozhaev AA, Orsa AN, **Zavriev SK**, Morozov SY (2021). Activity of Chemically Synthesized Peptide Encoded by the miR156A Precursor and Conserved in the Brassicaceae Family Plants. *Biochemistry (Mosc)* 86 (5), 551–562, [10.1134/S0006297921050047](https://doi.org/10.1134/S0006297921050047)
  22. Shcherbakova L, Mikityuk O, Arslanova L, Stakheev A, Erokhin D, **Zavriev S**, Dzhavakhiya V (2021). Studying the Ability of Thymol to Improve Fungicidal Effects of Tebuconazole and Difenconazole Against Some Plant Pathogenic Fungi in Seed or Foliar Treatments. *Front Microbiol* 12, 629429, [10.3389/fmicb.2021.629429](https://doi.org/10.3389/fmicb.2021.629429)
  23. Lukianova AA, Evseev PV, Stakheev AA, Kotova IB, **Zavriev SK**, Ignatov AN, Miroshnikov KA (2021). Development of qPCR Detection Assay for Potato Pathogen *Pectobacterium atrosepticum* Based on a Unique Target Sequence. *Plants (Basel)* 10 (2), 1–13, [10.3390/plants10020355](https://doi.org/10.3390/plants10020355)
  24. Barashkova AS, Sadykova VS, Salo VA, **Zavriev SK**, Rogozhin EA (2021). Nigellothionins from Black Cumin (*Nigella sativa* L.) Seeds Demonstrate Strong Antifungal and Cytotoxic Activity. *Antibiotics (Basel)* 10 (2), 1–15, [10.3390/antibiotics10020166](https://doi.org/10.3390/antibiotics10020166)
  25. Goryunova MS, Arzhanik VK, **Zavriev SK**, Ryazantsev DY (2021). Rolling circle amplification with fluorescently labeled dUTP—balancing the yield and degree of labeling. *Anal Bioanal Chem* 413 (14), 3737–3748, [10.1007/s00216-021-03322-7](https://doi.org/10.1007/s00216-021-03322-7)
  26. Taliansky M, Samarskaya V, **Zavriev SK**, Fesenko I, Kalinina NO, Love AJ (2021). RNA-Based Technologies for Engineering Plant Virus Resistance. *Plants (Basel)* 10 (1), 1–19, [10.3390/plants10010082](https://doi.org/10.3390/plants10010082)
  27. Mikheeva OO, Kostromina MA, Lykoshin DD, Tereshin MN, **Zavriev SK**, Svirshchevskaya EV, Khlgatyan SV, Esipov RS (2020). Production of Recombinant Allergens Phl p 1 and Amb a 1 for Detection of Class E Immunoglobulins. *Russ. J. Bioorganic Chem.* 46 (6), 1221–1228, [10.1134/S1068162020060199](https://doi.org/10.1134/S1068162020060199)
  28. Rogozhin EA, Vasilchenko AS, Barashkova AS, Smirnov AN, **Zavriev SK**, Demushkin VP (2020). Peptide Extracts from Seven Medicinal Plants Discovered to Inhibit Oomycete a Causative Agent of Potato Late Blight Disease. *Plants (Basel)* 9 (10), 1–15, [10.3390/plants9101294](https://doi.org/10.3390/plants9101294)
  29. Kreuze JF, Vaira AM, Menzel W, Candresse T, **Zavriev SK**, Hammond J, Hyun Ryu K, Report Consortium I (2020). ICTV Virus Taxonomy Profile: Alphaflexiviridae. *J Gen Virol* 101 (5), 454–455, [10.1099/jgv.0.001436](https://doi.org/10.1099/jgv.0.001436)
  30. Рязанцев ДЮ, Чудинова ЕМ, Кокаева ЛЮ, Еланский СН, Балабко ПН, Беглов ГЛ, **Завриев СК** (2020). Детекция *Colletotrichum Coccodes* с помощью ПЦР в реальном времени. *MIKOL FITOPATOL* 54 (1), 42–48, [10.31857/S0026364820010067](https://doi.org/10.31857/S0026364820010067)

31. Stakheev AA, Chigareva MS, Uskov AI, Shmyglya IV, Varitsev YA, Galushka PA, **Zavriev SK** (2020). Development of new qPCR-based identification systems for non-quarantine potato (*Solanum tuberosum* L.) pathogens distributed in the territory of Russia. *Selskokhoziaistvennaia Biol* 55 (1), 77–86, [10.15389/agrobiology.2020.1.77eng](https://doi.org/10.15389/agrobiology.2020.1.77eng)
32. **Zavriev SK**, Shemyakin IG (2019). Synthetic biology: Modern challenges and problems of biosafety. *Mirovaia Ekon Mezhdunar Otnosheiiia* 63 (12), 77–83, [10.20542/0131-2227-2019-63-12-77-83](https://doi.org/10.20542/0131-2227-2019-63-12-77-83)
33. Ryazantsev DY, Rogozhin EA, Tsvetkov VO, Yarullina LG, Smirnov AN, **Zavriev SK** (2019). Diversity of Harpin-Like Defense Peptides from Barnyard Grass (*Echinochloa crusgalli* L.) Seeds. *Dokl Biochem Biophys* 484 (1), 6–8, [10.1134/S1607672919010022](https://doi.org/10.1134/S1607672919010022)
34. Svirshchevskaya EV, Simonova MA, Matushevskaya EV, Fattakhova GV, Khlgatian SV, Ryazantsev DY, Chudakov DB, **Zavriev SK** (2019). Humoral response to Epstein-Barr viral infection in patients with allergies. *Bulletin of Russian State Medical University* 8 (1), 57–64, [10.24075/brsmu.2019.004](https://doi.org/10.24075/brsmu.2019.004)
35. Maerle AV, Simonova MA, Pivovarov VD, Voronina DV, Drobyazina PE, Trofimov DY, Alekseev LP, **Zavriev SK**, Ryazantsev DY (2019). Development of the covalent antibody-DNA conjugates technology for detection of IgE and IgM antibodies by immuno-PCR. *PLoS One* 14 (1), e0209860, [10.1371/journal.pone.0209860](https://doi.org/10.1371/journal.pone.0209860)
36. Rogozhin E, Ryazantsev D, Smirnov A, **Zavriev S** (2018). Primary Structure Analysis of Antifungal Peptides from Cultivated and Wild Cereals. *Plants (Basel)* 7 (3), , [10.3390/plants7030074](https://doi.org/10.3390/plants7030074)
37. Stakheev AA, Samokhvalova LV, Mikityuk OD, **Zavriev SK** (2018). Phylogenetic analysis and molecular typing of trichothecene-producing *Fusarium* fungi from Russian Collections. *Acta Naturae* 10 (2), 79–92, [10.32607/20758251-2018-10-2-79-92](https://doi.org/10.32607/20758251-2018-10-2-79-92)
38. Pivovarov VD, Ryazantsev DY, Simonova MA, Yegorova TV, Khlgatian SV, **Zavriev SK**, Svirshchevskaya EV (2018). [Immuno-PCR Assay for Quantitation of Antibodies to Epstein-Barr Virus]. *Mol Biol (Mosk)* 52 (4), 727–734, [10.1134/S0026898418040158](https://doi.org/10.1134/S0026898418040158)
39. Пивоваров ВД, Рязанцев ДЮ, Симонова МА, Димитриева ТВ, Хлгатын СВ, **Завриев СК**, Свирщевская ЕВ (2018). Разработка тест-систем для анализа антител к вирусу Эпштейна-Барр методом иммуно-ПЦР. 52 (4), 727–734, [10.1134/S0026898418040158](https://doi.org/10.1134/S0026898418040158)
40. Stakheev AA, Ryazantsev DY, Zvezdina YK, Baranov MS, **Zavriev SK** (2018). A Novel Fluorescent GFP Chromophore Analog-Based Dye for Quantitative PCR. *Biochemistry (Mosc)* 83 (7), 855–860, [10.1134/S000629791807009X](https://doi.org/10.1134/S000629791807009X)
41. Pivovarov VD, Ryazantsev DY, Simonova MA, Yegorova TV, Khlgatian SV, **Zavriev SK**, Svirshchevskaya EV (2018). Immuno-PCR Assay for Quantitation of Antibodies to Epstein–Barr Virus. *Mol Biol* 52 (4), 629–635, [10.1134/S0026893318040155](https://doi.org/10.1134/S0026893318040155)
42. Simonova MA, Pivovarov VD, Ryazantsev DY, Dolgova AS, Berzhets VM, **Zavriev SK**, Svirshchevskaya EV (2018). Comparative diagnostics of allergy using quantitative immuno-PCR and ELISA. *Bioanalysis* 10 (10), 757–767, [10.4155/bio-2017-0194](https://doi.org/10.4155/bio-2017-0194)
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44. Симонова МА, Пивоваров ВД, Рязанцев ДЮ, Костромина МА, Муравьева ТИ, Мокроносова МА, Хлгатын СВ, Есипов РС, **Завриев СК** (2018). Определение специфических иммуноглобулинов класса Е к аллергену березы Bet v 1 методом иммуно-ПЦР. 44, 203–211, [10.7868/S0132342318020124](https://doi.org/10.7868/S0132342318020124)
45. Смирнов И, **Завриев С** (2018). Химическое оружие: современное состояние и контроль за выполнением международных соглашений. 62 (1), 76–84, [10.20542/0131-2227-2018-62-01-76-84](https://doi.org/10.20542/0131-2227-2018-62-01-76-84)
46. **(конференция)** Стахеев АА, Звездина ЮК, Микитюк ОД, **Завриев СК** (2018). Изучение токсинообразования и полиморфизма трихотеценовых генов у грибов рода *Fusarium* российских коллекций. *Успехи медицинской микологии* 19, 337–343.
47. Стахеев АА, Рязанцев ДЮ, Звездина ЮК, Баранов МС, **Завриев СК** (2018). Новая метка для количественной ПЦР на основе синтетического аналога хромофора зелёного флуоресцентного белка. 87 (7), 1089–1095, [10.1134/S0320972518070126](https://doi.org/10.1134/S0320972518070126)
48. Башкирова ИГ, Матяшова ГН, **Завриев СК**, Рязанцев ДЮ, Шнейдер ЮА (2018). Апробация тест-систем для детекции фитоплазм яблони и груши. *Защита и карантин растений* (7), 40–41.

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50. Рогожин ЕА, Кисиль ОВ, Чертаев ИВ, **Завриев СК** (2017). Характеристика белково-пептидного экстракта семян мари белой (*Chenopodium album* L.): изучение компонентного состава, антимикробных и анальгетических свойств. *Antibiot Med Biotechnol* 62 (9), 3–8.
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54. Стахеев АА, Кондратьев МО, Приходько ЮН, **Завриев СК** (2017). Диагностика карантинных вирусов рода Nepovirus методом количественной ПЦР. *Защита и карантин растений* 3, 35–38.
55. (конференция) Свищевская ЕВ, Фаттахова ГВ, Хлгатын СВ, Бержец ВМ, **Завриев СК** (2017). Сенсибилизация к грибным аллергенам. XVII, 401–406.
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