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Адрес

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Образование

2012– 2012	Москва, Россия	ИБХ РАН	Диплом доктора химических наук, 2012
1989– 1992	Москва, СССР/ Россия	Аспирантура ИБХ АН СССР/РАН	Диплом кандидата химических наук, 1993
1982– 1989	Минск, СССР	Белорусский государственный университет	Диплом химика (с отличием)

Работа в ИБХ

2018–наст.вр.	Главный научный сотрудник
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Членство в сообществах

Американское химическое общество

Член Учёного совета Института по изысканию новых антибиотиков им. Г.Ф. Гаузе РАН

Член Президиума ВАК (2016-2019)

Степени и звания

Доктор наук (Химические науки, 02.00.10 — Биоорганическая химия)

Гранты и проекты

2023– наст.вр.	Амфипатические фотосенсибилизаторы в качестве противовирусных препаратов широкого спектра действия
2021– 2023	Разработка средств профилактики и лечения COVID-19 и сопутствующих инфекционных заболеваний с использованием генетических технологий
2020– 2022	Конъюгаты антибиотиков с антителами: рациональный дизайн для улучшения фармакологических свойств
2020– 2022	Противовирусные соединения с широким спектром активности для терапии респираторных вирусных заболеваний
2020– 2022	Полифункциональные линкеры для модификации биологически активных соединений
2015– 2019	Амфипатические нуклеозиды и их конъюгаты в качестве противовирусных препаратов

Публикации

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2. Kravchenko TV, Paramonov AS, Kudzhaev AM, Efimova SS, Khorev AS, Kudryakova GK, Ivanov IA, Chistov AA, Baranova AA, Krasilnikov MS, Lapchinskaya OA, Tyurin AP, Ostroumova OS, Smirnov IV, Terekhov SS, Dontsova OA, Shenkarev ZO, Alferova VA, **Korshun VA** (2024). Gausemycin Antibiotic Family Acts via Ca²⁺-Dependent Membrane Targeting. *Lloydia* , , [10.1021/acs.jnatprod.3c00612](https://doi.org/10.1021/acs.jnatprod.3c00612)
3. Prokhorenko IA, Glushchenko DA, Gulyak EL, Mikhura IV, **Korshun VA**, Mukhametova LI, Eremin SA (2024). Synthesis of Steroid Tracers by an Oxime Ligation Method and Their Use in Fluorescent Polarisation Immunoassay. *Russ. J. Bioorganic Chem.* 50 (1), 116–127, [10.1134/S1068162024010060](https://doi.org/10.1134/S1068162024010060)
4. Gulyak EL, Alferova VA, **Korshun VA**, Sapozhnikova KA (2023). Introduction of Carbonyl Groups into Antibodies. *Molecules* 28 (23), 7890, [10.3390/molecules28237890](https://doi.org/10.3390/molecules28237890)
5. Mikhnovets IE, Holoubek J, Panina IS, Kotouček J, Gvozdev DA, Chumakov SP, Krasilnikov MS, Zhitlov MY, Gulyak EL, Chistov AA, Nikitin TD, **Korshun VA**, Efremov RG, Alferova VA, Růžek D, Eyer L, Ustinov AV (2023). Alkyl Derivatives of Perylene Photosensitizing Antivirals: Towards Understanding the Influence of Lipophilicity. *Int J Mol Sci* 24 (22), 16483, [10.3390/ijms242216483](https://doi.org/10.3390/ijms242216483)
6. Mariewskaya KA, Gvozdev DA, Chistov AA, Straková P, Huvarová I, Svoboda P, Kotouček J, Ivanov NM, Krasilnikov MS, Zhitlov MY, Pak AM, Mikhnovets IE, Nikitin TD, **Korshun VA**, Alferova VA, Mašek J, Růžek D, Eyer L, Ustinov AV (2023). Membrane-Targeting Peryleneethynylphenols Inactivate Medically Important Coronaviruses via the Singlet Oxygen Photogeneration Mechanism. *Molecules* 28 (17), 6278, [10.3390/molecules28176278](https://doi.org/10.3390/molecules28176278)
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8. Kamzeeva PN, Aralov AV, Alferova VA, **Korshun VA** (2023). Recent Advances in Molecular Mechanisms of Nucleoside Antivirals. *Curr Issues Mol Biol* 45 (8), 6851–6879, [10.3390/cimb45080433](https://doi.org/10.3390/cimb45080433)
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10. Baranova AA, Alferova VA, **Korshun VA**, Tyurin AP (2023). Modern Trends in Natural Antibiotic Discovery. *Life (Basel)* 13 (5), 1073, [10.3390/life13051073](https://doi.org/10.3390/life13051073)
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12. Alferova VA, Maviza TP, Biryukov MV, Zakalyukina YV, Polshakov VI, Sergiev PV, **Korshun VA**, Osterman IA (2023). Characterization of a novel natural tetracenomycin reveals crucial role of 4-hydroxy group in ribosome binding. *Biochimie* 206, 150–153, [10.1016/j.biochi.2022.10.016](https://doi.org/10.1016/j.biochi.2022.10.016)
13. Sapozhnikova KA, Gulyak EL, Brylev VA, Misyurin VA, Oreshkov SD, Alexeeva AV, Ryazantsev DY, Simonova MA, Ryabukhina EV, Popova GP, Tikhonova NA, Lyzhko NA, Barmashov AE, Misyurin AV, Ustinov AV, Alferova VA, **Korshun VA** (2023). Aminoxy Click Modification of a Periodate-Oxidized Immunoglobulin G: A General Approach to Antibody–Drug Conjugates with Dye-Mediated Expedient Stoichiometry Control. *Int J Mol Sci* 24 (6), 5134, [10.3390/ijms24065134](https://doi.org/10.3390/ijms24065134)
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15. Mariewskaya KA, Krasilnikov MS, **Korshun VA**, Ustinov AV, Alferova VA (2023). Near-Infrared Dyes: Towards Broad-Spectrum Antivirals. *Int J Mol Sci* 24 (1), 188, [10.3390/ijms24010188](https://doi.org/10.3390/ijms24010188)
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32. Brylev VA, Ustinov AV, Tsvetkov VB, Barinov NA, Aparin IO, Sapozhnikova KA, Berlina YY, Kokin EA, Klinov DV, Zatsepin TS, **Korshun VA** (2020). Toehold-Mediated Selective Assembly of Compact Discrete DNA Nanostructures. *Langmuir* 36 (49), 15119–15127, [10.1021/acs.langmuir.0c02696](https://doi.org/10.1021/acs.langmuir.0c02696)
33. Baranova AA, Chistov AA, Tyurin AP, Prokhorenko IA, **Korshun VA**, Biryukov MV, Alferova VA, Zakalyukina YV (2020). Chemical ecology of streptomyces albidoflavus strain a10 associated with carpenter ant camponotus vagus. *Microorganisms* 8 (12), 1948, [10.3390/microorganisms8121948](https://doi.org/10.3390/microorganisms8121948)
34. Nikolayeva YV, Ulashchik EA, Chekerda EV, Galochkina AV, Slesarchuk NA, Chistov AA, Nikitin TD, **Korshun VA**, Shmanai VV, Ustinov AV, Shtro AA (2020). 5-(Perylen-3-ylethynyl)uracil Derivatives Inhibit Reproduction of Respiratory Viruses. *Russ. J. Bioorganic Chem.* 46 (3), 315–320, [10.1134/S1068162020030139](https://doi.org/10.1134/S1068162020030139)
35. Aparin IO, Sergeeva OV, Mishin AS, Khaydukov EV, **Korshun VA**, Zatsepin TS (2020). Excimer-FRET Cascade in Dual DNA Probes: Open Access to Large Stokes Shift, Enhanced Acceptor Light up, and Robust RNA Sensing. *Anal Chem* 92 (10), 7028–7036, [10.1021/acs.analchem.0c00270](https://doi.org/10.1021/acs.analchem.0c00270)
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