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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 (2013-2023)

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. Maryewski XA, Krasilnikov MS, Straková P, Holoubek J, Frčková T, Panina IS, Krylov NA, Gvozdev DA, Denisov VS, Semenov AN, Lotosh NY, Selishcheva AA, Chistov AA, Gulyak EL, Kozhemyakin GL, **Korshun VA**, Efremov RG, Ustinov AV, Růžek D, Eyer L, Alferova VA (2025). Membrane-Active Singlet Oxygen Photogenerators as a Paradigm for Broad-Spectrum Antivirals: The Case of Halogenated (BORon)-DIPYromethenes. *ACS Appl Mater Interfaces* 17 (3), 4502–4528, [10.1021/acsami.4c17482](https://doi.org/10.1021/acsami.4c17482)
3. Gulyak EL, Brylev VA, Zhitlov MY, Komarova OA, Ustinov AV, Sapozhnikova KA, Alferova VA, **Korshun VA**, Gvozdev DA (2024). Indocarbocyanine–Indodicarbocyanine (sCy3–sCy5) Absorptive Interactions in Conjugates and DNA Duplexes. *Molecules* 30 (1), 57, [10.3390/molecules30010057](https://doi.org/10.3390/molecules30010057)
4. Gulyak EL, Komarova OA, Prokopenko YA, Faizullina EA, Malabuiok DM, Ibragimova AR, Mokrushina YA, Serova OV, Popova GP, Zhitlov MY, Nikitin TD, Brylev VA, Ustinov AV, Alferova VA, **Korshun VA**, Smirnov IV, Terekhov SS, Sapozhnikova KA (2024). Branched Linkers for Homogeneous Antibody-Drug Conjugates: How Long Is Long Enough? *Int J Mol Sci* 25 (24), 13356, [10.3390/ijms252413356](https://doi.org/10.3390/ijms252413356)
5. Alferova VA, Baranova AA, Belozero OA, Gulyak EL, Mikhaylov AA, Solovev YV, Zhitlov MY, Sinichich AA, Tyurin AP, Trusova EA, Beletsky AV, Mardanov AV, Ravin NV, Lapchinskaya OA, **Korshun VA**, Gabibov AG, Terekhov SS (2024). Molecular Decoration and Unconventional Double Bond Migration in Irumamycin Biosynthesis. *Antibiotics (Basel)* 13 (12), 1167, [10.3390/antibiotics13121167](https://doi.org/10.3390/antibiotics13121167)
6. Maryewski XA, Larkin DY, Samoilichenko YV, Gvozdev DA, **Korshun VA**, Ustinov AV (2024). Fluorescence of BODIPY dyes in gas phase at near-ambient conditions. *Dyes Pigm* 231, , [10.1016/j.dyepig.2024.112366](https://doi.org/10.1016/j.dyepig.2024.112366)
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9. Baranova AA, Zakalyukina YV, Tyurin AP, **Korshun VA**, Belozero OA, Biryukov MV, Moiseenko AV, Terekhov SS, Alferova VA (2024). Antimicrobial Metabolites from Pig Nasal Microbiota. *Russ. J. Bioorganic Chem.* 50 (2), 354–374, [10.1134/S1068162024020237](https://doi.org/10.1134/S1068162024020237)
10. 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. *J. Nat. Prod.* 87 (4), 664–674, [10.1021/acs.jnatprod.3c00612](https://doi.org/10.1021/acs.jnatprod.3c00612)
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12. 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)
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15. Baranova AA, Tyurin AP, **Korshun VA**, Alferova VA (2023). Sensing of Antibiotic–Bacteria Interactions. *Antibiotics (Basel)* 12 (8), 1340, [10.3390/antibiotics12081340](https://doi.org/10.3390/antibiotics12081340)

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- characterization of a novel tetracenomycin X congener. *Biochimie* 192, 63–71, [10.1016/j.biochi.2021.09.014](https://doi.org/10.1016/j.biochi.2021.09.014)
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 34. Mariewskaya KA, Tyurin AP, Chistov AA, **Korshun VA**, Alferova VA, Ustinov AV (2021). Photosensitizing Antivirals. *Molecules* 26 (13), 3971, [10.3390/molecules26133971](https://doi.org/10.3390/molecules26133971)
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- Copy HIV RNA with Yin-Yang Probes. *Methods Mol Biol* 2063, 27–35, [10.1007/978-1-0716-0138-9_3](https://doi.org/10.1007/978-1-0716-0138-9_3)
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