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Адрес

Федеральное государственное бюджетное учреждение науки Институт биоорганической химии им. академиков М.М. Шемякина и Ю.А. Овчинникова Российской академии наук, Москва, Россия

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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

2024– наст.вр.	Онкотераностика и проблемы резистентности к противоопухолевым и антибактериальным препаратам
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

Публикации

1. Krasilnikov MS, Mazur RV, Chumakov SP, Denisov VS, Goldenderg EA, Nikolaenko YI, Bersenev EA, Nikitin TD, Orinicheva PS, Brylev VA, Gulyak EL, **Korshun VA**, Alferova VA, Gvozdev DA, Ustinov AV (2025). Donor-Acceptor (Perylenethienyl)Ethylenes as Singlet Oxygen-Photogenerating Viral Inhibitors. *Chembiochem* , e202401019, [10.1002/cbic.202401019](#)
2. Kamzeeva PN, Alferova VA, **Korshun VA**, Varizhuk AM, Aralov AV (2025). 5'-UTR G-Quadruplex-Mediated Translation Regulation in Eukaryotes: Current Understanding and Methodological Challenges. *Int J Mol Sci* 26 (3), 1187, [10.3390/ijms26031187](#)
3. 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](#)
4. 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](#)
5. Gulyak EL, Komarova OA, Prokopenko YA, Faizullina EA, Malabuik 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](#)
6. 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](#)
7. Maryewski XA, Larkin DY, Samoilenchenko 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](#)
8. Brylev VA, Ryabukhina EV, Nazarova EV, Samoylenkova NS, Gulyak EL, Sapozhnikova KA, Dzarieva FM, Ustinov AV, Pronin IN, Usachev DY, Kopylov AM, Golovin AV, Pavlova GV, Ryazantsev DY, **Korshun VA** (2024). Towards Aptamer-Targeted Drug Delivery to Brain Tumors: The Synthesis of Ramified Conjugates of an EGFR-Specific Aptamer with MMAE on a Cathepsin B-Cleavable Linker. *Pharmaceutics* 16 (11), , [10.3390/pharmaceutics16111434](#)
9. Baranova AA, Alferova VA, **Korshun VA**, Tyurin AP (2024). Imaging-based profiling for elucidation of antibacterial mechanisms of action. *J Appl Biochem* , , [10.1002/bab.2681](#)
10. 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](#)
11. 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](#)
12. 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](#)
13. Gulyak EL, Alferova VA, **Korshun VA**, Sapozhnikova KA (2023). Introduction of Carbonyl Groups into Antibodies. *Molecules* 28 (23), 7890, [10.3390/molecules28237890](#)
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16. 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)
17. 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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 33. Ikonnikova VA, Solyev PN, Terekhov SS, Alferova VA, Tyurin AP, **Korshun VA**, Baranov MS, Mikhaylov AA (2021). Total Synthesis of Elmenols A and B and Related Rearranged Angucyclinones. *ChemistrySelect* 6 (42), 11775–11778, [10.1002/slct.202103755](https://doi.org/10.1002/slct.202103755)
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