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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
2026–2024	Профессор

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
2023–2025	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–	Полифункциональные линкеры для модификации биологически активных соединений

Публикации

1. Panina IS, Vlasova YS, Panina YS, Krasilnikov MS, Alferova VA, **Korshun VA**, Chugunov AO (2026). Towards molecular dynamics simulation of membrane-targeting photosensitizing antivirals. *Phys Chem Chem Phys*, , [10.1039/d5cp04006j](#)
2. Gulyak EL, **Korshun VA**, Sapozhnikova KA (2026). Multivalent linkers: A growing trend in antibody-drug conjugate development. *Biotechnol Adv* 89, 108841, [10.1016/j.biotechadv.2026.108841](#)
3. Postnov AA, Pronin IN, Vikhrova NB, Kalaeva DB, Pyzhik EV, Lipengolts AA, Revishchin AV, Dzarieva FM, Sliman YA, Golovin AV, **Korshun VA**, Brylev VA, Skribitsky VA, Finogenova YA, Shpakova KE, Grigorieva EY, Alekseeva AI, Smirnova AV, Kopylov AM, Pavlova GV, Usachev DY (2025). A PET-CT study of the uptake of labeled aptamers [18F]FB-Gol1 and [18F]FB-GR20 in rat 101.8 glioblastoma model. *Front Oncol* 15, 1713181, [10.3389/fonc.2025.1713181](#)
4. Zhitlov MY, **Korshun VA**, Alferova VA (2025). Microfluidics to Meet Antibiotic Resistance: A Growing Research Frontier. *Antibiotics (Basel)* 14 (12), 1232, [10.3390/antibiotics14121232](#)
5. Krasilnikov MS, Denisov VS, **Korshun VA**, Ustinov AV, Alferova VA (2025). Membrane-Targeting Antivirals. *Int J Mol Sci* 26 (15), 7276, [10.3390/ijms26157276](#)
6. 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* 26 (7), e202401019, [10.1002/cbic.202401019](#)
7. 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](#)
8. 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/acscami.4c17482](#)
9. 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](#)
10. 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](#)
11. Alferova VA, Baranova AA, Belozero OA, Gulyak EL, Mikhaylov AA, Solovlev 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](#)
12. Maryewski XA, Larkin DY, Samoilenko 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](#)
13. Brylev VA, Ryabukhina EV, Nazarova EV, Samoilenkova 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](#)
14. Baranova AA, Alferova VA, **Korshun VA**, Tyurin AP (2024). Imaging-based profiling for elucidation of antibacterial mechanisms of action. *J Appl Biochem* 72 (2), 542–569, [10.1002/bab.2681](#)

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16. 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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 32. Alferova VA, Mikhnovets IE, Chistov AA, **Korshun VA**, Tyurin AP, Ustinov AV (2022). Chapter Three - Perylene as a controversial antiviral scaffold. *Annu Rep Med Chem* 58, 93–156, [10.1016/bs.armc.2022.08.001](https://doi.org/10.1016/bs.armc.2022.08.001)
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 35. Shtro AA, Garshinina AV, Alferova VA, Kamzeeva PN, Volok VP, Kolpakova ES, Nikitin TD, Chistov AA, Belyaev ES, **Korshun VA**, Kozlovskaya LI, Aralov AV (2022). Cationic Perylene Antivirals with Aqueous Solubility for Studies In Vivo. *Pharmaceuticals (Basel)* 15 (10), [10.3390/ph15101178](https://doi.org/10.3390/ph15101178)
 36. Alferova VA, Maviza TP, Biryukov MV, Zakalyukina YV, Lukianov DA, Skvortsov DA, Vasilyeva LA, Tashlitsky VN, Polshakov VI, Sergiev PV, **Korshun VA**, Osterman IA (2022). Biological evaluation and spectral 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)
 37. Sapozhnikova KA, Misyurin VA, Ryazantsev DY, Kokin EA, Finashutina YP, Alexeeva AV, Ivanov IA, Kocharovskaya MV, Tikhonova NA, Popova GP, Alferova VA, Ustinov AV, **Korshun VA**, Brylev VA (2021). Sensitive Immunofluorescent Detection of the PRAME Antigen Using a Practical Antibody Conjugation Approach. *Int J Mol Sci* 22 (23), 12845, [10.3390/ijms222312845](https://doi.org/10.3390/ijms222312845)
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 43. Kozlovskaya LI, Volok VP, Shtro AA, Nikolaeva YV, Chistov AA, Matyugina ES, Belyaev ES, Jegorov AV, Snoeck R, **Korshun VA**, Andrei G, Osolodkin DI, Ishmukhmetov AA, Aralov AV (2021). Phenoxazine nucleoside derivatives with a multiple activity against RNA and DNA viruses. *Eur J Med Chem* 220, 113467, [10.1016/j.ejmech.2021.113467](https://doi.org/10.1016/j.ejmech.2021.113467)
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47. 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)
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