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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

Член Президиума ВАК (2016-2019)

### Степени и звания

Доктор наук (Химические науки, 02.00.10 — Биоорганическая химия)
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### Гранты и проекты

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

## Публикации

1. 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)
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 Ca<sup>2+</sup>-Dependent Membrane Targeting. *J. Nat. Prod.* 87 (4), 664–674, [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)
7. 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)
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)
11. Veryutin DA, Doroshenko IA, Martynova EA, Sapozhnikova KA, Svirshchevskaya EV, Shibaeva AV, Markova AA, Chistov AA, Borisova NE, Shuvalov MV, **Korshun VA**, Alferova VA, Podrugina TA (2023). Probing tricarbocyanine dyes for targeted delivery of anthracyclines. *Biochimie* 206, 12–23, [10.1016/j.biochi.2022.09.015](https://doi.org/10.1016/j.biochi.2022.09.015)
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31. Baranova AA, Alferova VA, **Korshun VA**, Tyurin AP (2020). Antibiotics from extremophilic micromycetes. *Russ. J. Bioorganic Chem.* 46 (6), 903–971, [10.1134/S1068162020060023](https://doi.org/10.1134/S1068162020060023)
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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)
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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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