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Контакты

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Образование

1969–1972	Россия, Долгопрудный	МФТИ	Аспирант
1969	Россия, Долгопрудный	МФТИ	Студент (специальность «молекулярная биофизика»)

Работа в ИБХ

2017–наст.вр.	Заведующий отделом
2018–2022	Главный научный сотрудник

Членство в советах и комиссиях ИБХ

	Ученый совет
2026–наст.вр.	Аттестационная комиссия

Награды

2017	Орден «За заслуги перед Отечеством» III степени	
2011	Орден «За заслуги перед Отечеством» IV степени	
1998	Орден Почёта	
2006	Орден Дружбы	
1999	Государственная премия в области науки и техники	За работу «Принципы структурной организации белков и их применение к конструированию новых белковых молекул: теория и эксперимент»
2016	Премия РАН имени А.А. Баева	За цикл работ «Рекомбинантные белки как современный инструмент для структурной биологии, биофизики и молекулярной биологии»
2024	Орден Александра Невского	За большой вклад в развитие отечественной науки, многолетнюю плодотворную деятельность и в связи с 300-летием со дня основания Российской академии наук.

Членство в сообществах

1994: член-корреспондент Российской академии наук.

1997: действительный член Российской академии наук.

1999-2008: член Ученого совета ИБХ РАН.

Член Президиума РАН. Член бюро Отделения биологических наук РАН.

Председатель Высшей аттестационной комиссии Министерства образования и науки РФ.

Член Совета РФФИ. Член Совета РГНФ.

1992-2000: заместитель председателя Координационного межведомственного совета по приоритетному направлению "Науки о жизни и биотехнология" при Министерстве науки и технологий РФ и Президиуме РАН (с 1998 г. - Координационный совет по приоритетному направлению "Технология живых систем" при Министерстве науки и технологий РФ).

Член специализированного Ученого совета по защитах докторских диссертаций Института биологии гена РАН.

Член Международной сети по белковой инженерии (INPEC).

Член Совета по поддержке ведущих научных школ Российской Федерации и молодых докторов наук.

Член Межведомственной комиссии по проблемам генно-инженерной деятельности. Член Межведомственного научного совета РАН и РАМН по фундаментальным проблемам медицины.

Главный редактор "Биологического вестника Московского университета".

Член редколлегии научных журналов "Биоорганическая химия", "Биотехнология", "Наука в России", "Доклады Российской академии наук".

Степени и звания

1997	Академик
1994	Член-корреспондент РАН
	Профессор
1987	Доктор наук (Биологические науки, 03.00.03 — Молекулярная биология)

Ссылки и контакты

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Гранты и проекты

2024— наст.вр.	Онкотераностика и проблемы резистентности к противоопухолевым и антибактериальным препаратам
2019—2022	Эпигенетические механизмы биологических процессов и их роль в патогенезе онкологических заболеваний

Публикации

1. Smitienko OA, Feldman TB, Cherepanov DA, Petrovskaya LE, Kryukova EA, Shelaev IV, Gostev FE, Kusocheck PA, Belov VV, Yakovleva MA, Kolchugina IB, Dolgikh DA, Bochenkova AV, Balashov SP, Nadochenko VA, **Kirpichnikov MP**, Ostrovsky MA (2026). Role of the chromophore counterion in guiding ultrafast photoreaction dynamics of *Exiguobacterium sibiricum* rhodopsin. *J Photochem Photobiol A Chem*

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2. Zaigraev MM, Zhivov EA, Chelyadinskii TR, Shulepko MA, Kulbatskii DS, Qing H, Zhenzhen Q, **Kirpichnikov MP**, Shenkarev ZO, Chugunov AO, Lyukmanova EN (2026). Mutagenesis-guided modeling of the Lynx1- $\alpha 7$ nicotinic acetylcholine receptor complex: An iterative feedback-driven approach. *Int J Biol Macromol* , 154624, [10.1016/j.ijbiomac.2026.154624](https://doi.org/10.1016/j.ijbiomac.2026.154624)
3. Mamaeva NY, Yakovlev VA, Kristovskiy NV, Feskin PG, Vinnikov RS, Oleinikov PD, Shmakov SA, Shaitan KV, **Kirpichnikov MP**, Shaytan AK (2026). 3D Genome Engineering Using CRISPR/dCas Systems. *Int J Mol Sci* 27 (18), , [10.3390/ijms27188104](https://doi.org/10.3390/ijms27188104)
4. Isakova AA, Antipova NV, Mazur DV, Druzhkova IN, Gavrina AI, Shuvalova ML, Patsap OI, Bondarenko DA, Murashev AN, **Kirpichnikov MP**, Gasparian ME, Yagolovich AV, Dolgikh DA (2026). Long-Term Culture of U87MG Glioblastoma Cells Reprograms Metabolism, Impacts Aggressiveness and Alters Drug Responses. *Cell Biochem Biophys* , , [10.1007/s12013-026-02121-0](https://doi.org/10.1007/s12013-026-02121-0)
5. Bychkov ML, Kirichenko AV, Yashin KS, Medyanik IA, **Kirpichnikov MP**, Lyukmanova EN (2026). Plasma Extracellular Vesicles from Glioblastoma Patients Affect Phenotype and Activate Receptor Tyrosine Kinases in Glioblastoma Cells. *Dokl Biol Sci* , , [10.1134/S0012496625600800](https://doi.org/10.1134/S0012496625600800)
6. Efremenko AV, Dzhumaniazova I, Abramochkin DV, Shmatin II, Korabeynikova VN, Kryukova EV, **Kirpichnikov MP**, Feofanov AV, Nekrasova OV (2026). Influence of Mutant Alpha-Subunit Kv1.1(A261T) on the Properties of the Heterotetrameric Channel Kv1.1-Kv1.2. *Russ. J. Bioorganic Chem.* 52 (3), 67, [10.1134/S106816202660131X](https://doi.org/10.1134/S106816202660131X)
7. Nolde DE, Kocharovskaya MV, Popov AV, **Kirpichnikov MP**, Lyukmanova EN, Shenkarev ZO (2026). Point Substitution N33D in the Light Chain of Neutralizing Antibody REGN10987 Increases the Fab Affinity to RBD of Omicron BA.1 SARS-CoV-2 Variant. In Silico Study. *Russ. J. Bioorganic Chem.* 52 (3), 70, [10.1134/S1068162026600662](https://doi.org/10.1134/S1068162026600662)
8. Semenova MA, Atrikhalov RG, Smirnova OM, Britikov VV, Britikova EV, Ignatova AA, Bershatsky YV, Khodnenko AP, Oleynikov IP, Siletsky SA, Vygodina TV, Bocharov EV, **Kirpichnikov MP**, Dolgikh DA, Chertkova RV (2026). Development of Mutant C120S Neuroglobin, Its Characteristics and Interaction with Cytochrome c. *Russ. J. Bioorganic Chem.* 52 (3), 81, [10.1134/S1068162026601321](https://doi.org/10.1134/S1068162026601321)
9. Kirichenko AV, Bychkov ML, Kulbatskii DS, Shlepova OV, Shulepko MA, Gornostaeva TY, Orekhov PS, Paramonov A, Mikhaylova IN, Burova OS, Medyanik IA, Yashin KS, Wang H, Wang X, **Kirpichnikov MP**, Shenkarev ZO, Lyukmanova EN (2026). Hybrid channels containing the dupa7 subunit mediate resistance to $\alpha 7$ -nAChR targeting therapy in metastatic melanoma. *Am J Physiol Cell Physiol* 330 (5), C1491–C1508, [10.1152/ajpcell.00730.2025](https://doi.org/10.1152/ajpcell.00730.2025)
10. Arkhipchenko AA, Semenov AN, Chesalin DD, Sidorenko SV, Bodunova DV, Gorokhov ES, Yakovleva MA, Feldman TB, Moysenovich AM, Senin II, Shebardina NG, Tiulina VV, Ramonova AA, Andreev VS, Morozov PV, Bilan DS, Ilyinsky NS, Zernii EY, Maksimov EG, Ostrovsky MA, **Kirpichnikov MP** (2026). Photooxidation Dynamics of Lipofuscin in the Presence of Carotenoid-Binding Protein AstaP: Fluorescence Lifetime Imaging and Pigment Composition Analysis. *J Phys Chem B* 130 (11), 2974–2986, [10.1021/acs.jpccb.5c06621](https://doi.org/10.1021/acs.jpccb.5c06621)
11. Druzhkova I, Orlova A, Subochev P, Kurnikov A, Glyavina A, Isakova A, Kukovyakina E, Plotnikova E, Gasparian M, Komarova A, Sinyushkina S, Potapov A, Spashchanskii R, Anina A, **Kirpichnikov M**, Dolgikh D, Razansky D, Yagolovich A (2026). Assessment of the angiogenic potential of xenografted tumors by biomedical imaging techniques. *Biomed Opt Express* 17 (3), 1189–1204, [10.1364/BOE.577775](https://doi.org/10.1364/BOE.577775)
12. Gribkova AK, Armeev GA, **Kirpichnikov MP**, Shaytan AK (2026). (Re)defining the human chromatome: an integrated meta-analysis of localization, function, abundance, physical properties, and domain composition of chromatin proteins. *Nucleic Acids Res* 54 (2), , [10.1093/nar/gkaf1489](https://doi.org/10.1093/nar/gkaf1489)
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14. Isakova AA, Antipova NV, Mazur DV, Ivanova EI, Dolgikh DA, **Kirpichnikov MP**, Gasparian ME, Yagolovich AV (2026). Senolytic Properties of DR5-Selective TRAIL in Pancreatic Cancer Cell Lines. *Acta Naturae* 18 (2), 76–84, [10.32607/actanaturae.27844](https://doi.org/10.32607/actanaturae.27844)
15. Lyukmanova EN, Gornostaeva TY, Shabelnikov SV, Shenkarev ZO, **Kirpichnikov MP**, Paramonov AS, Bychkov ML (2025). Ly6/uPAR Protein from *Asterias rubens* Starfish Stimulates Migration and Invasion of

- Human Epithelial and Immune Cells. *Mar Drugs* 24 (1), 3, [10.3390/md24010003](https://doi.org/10.3390/md24010003)
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 17. Ignatova AA, Efremenko AV, Abramochkin DV, Dzhumaniiazova I, Shmatin II, **Kirpichnikov MP**, Feofanov AV, Nekrasova OV (2025). Properties of Heterochannels Kv(1.1-1.2)2 with Mutation T226R in the Kv1.1 Subunit. *Int J Mol Sci* 26 (19), 9730, [10.3390/ijms26199730](https://doi.org/10.3390/ijms26199730)
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 19. Petrovskaya LE, Ziganshin RH, Kryukova EA, Spirina EV, Rivkina EM, Siletsky SA, Dolgikh DA, **Kirpichnikov MP** (2025). Changes in the Protein Composition of the *Exiguobacterium sibiricum* Membrane with Decreasing Temperature: A Proteomic Analysis. *Russ. J. Bioorganic Chem.* 51 (5), 2000–2013, [10.1134/S1068162025601995](https://doi.org/10.1134/S1068162025601995)
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 24. Efremenko AV, Kryukova EV, Kazakov OV, Ignatova AA, Shmatin II, Korabeynikova VN, Toporova VA, Yakimov SA, **Kirpichnikov MP**, Nekrasova OV, Feofanov AV (2025). Heterochannels Kv(1.1-1.2)2 and Their Interactions with Pore Blockers. *Cells* 14 (17), 1364, [10.3390/cells14171364](https://doi.org/10.3390/cells14171364)
 25. Yagolovich AV, Isakova AA, Kukovyakina EV, Zijian Y, Fedulova AS, Avakiants AV, Shaytan AK, Dolgikh DA, **Kirpichnikov MP**, Gasparian ME (2025). Novel Fusion Protein Based on DR5-Specific TRAIL Variant with Enhanced Antitumor Properties. *Biochemistry (Mosc)* 90 (9), 1277–1287, [10.1134/S0006297925602096](https://doi.org/10.1134/S0006297925602096)
 26. Koshkina D, Maluchenko N, Nilov D, Lyubitelev A, Korovina A, Pushkarev S, Armeev G, **Kirpichnikov M**, Studitsky V, Feofanov A (2025). Non-Classical H1-like PARP1 Binding to Chromatosome. *Cells* 14 (17), 1309, [10.3390/cells14171309](https://doi.org/10.3390/cells14171309)
 27. Druzhkova IN, Orlova AG, Fedulova AS, Avakiants AV, Isakova AA, Kukovyakina EV, Zijian Y, Plotnikova EA, Trunova GV, Pankratov AA, Plekhanov AA, Kurnikov AA, Subochev PV, Shaytan AK, Gasparian ME, **Kirpichnikov MP**, Dolgikh DA, Razansky D, Yagolovich AV (2025). Multivalent fusion protein targeting VEGFR2 and DR5 receptors: assessing the antiangiogenic and antitumor effects via multimodal microangiography. *J Transl Med* 23 (1), 949, [10.1186/s12967-025-06859-8](https://doi.org/10.1186/s12967-025-06859-8)
 28. Kostin NN, Bobik TV, Konovalova EV, Kocharovskaya MV, Simonova MA, Rushkevich NY, Mokrushina YA, Skryabin GA, Kalinin RS, Kovalchuk SI, Ziganshin RH, Kaluzhskiy LA, Gnedenko OV, Yablokov EO, Ivanov AS, Chernov AS, Kazakov VA, Khokhlova ON, Murashev AN, Hong S, Shramova EI, Schulga AA, Lyukmanova EN, **Kirpichnikov MP**, Smirnov IV, Belogurov AA, Rubtsov YP, Stepanov AV, Zhang H, Gabibov AG, Deyev SM (2025). Fusion of SARS-CoV-2 neutralizing LCB1 peptide with *Bacillus amyloliquefaciens* RNase improves antiviral efficacy. *Sci Rep* 15 (1), 28039, [10.1038/s41598-025-12444-2](https://doi.org/10.1038/s41598-025-12444-2)

29. Petrovskaya LE, Spirina EV, Sukhanov AY, Kryukova EA, Lukashev EP, Ziganshin RH, Rivkina EM, Dolgikh DA, **Kirpichnikov MP** (2025). Effect of Cultivation Conditions on the Expression of the *Exiguobacterium sibiricum* Proteorhodopsin Gene. *Biochemistry (Mosc)* 90 (7), 911–920, [10.1134/S0006297925600917](https://doi.org/10.1134/S0006297925600917)
30. Maluchenko N, Saulina A, Geraskina O, Kotova E, Korovina A, Armeev G, **Kirpichnikov M**, Feofanov A, Studitsky V (2025). Poly(ADP-ribose)polymerase 2 is zinc-dependent enzyme and nucleosome reorganizer. *Cell Mol Life Sci* 82 (1), 267, [10.1007/s00018-025-05785-8](https://doi.org/10.1007/s00018-025-05785-8)
31. Bochkova ZV, Semenova MA, Smirnova OM, Maksimov GV, Rubin AB, **Kirpichnikov MP**, Dolgikh DA, Chertkova RV, Brazhe NA (2025). The molecular mechanism of redox interaction between neuroglobin and cytochrome c. *Int J Biol Macromol* 318 (Pt 3), 145040, [10.1016/j.ijbiomac.2025.145040](https://doi.org/10.1016/j.ijbiomac.2025.145040)
32. Yagolovich AV, Isakova AA, Kukovyakina EV, Dolgikh DA, **Kirpichnikov MP**, Gasparian ME (2025). Combined Effects of Cytokine TRAIL-Based DR5-Specific Fusion Protein with Olaparib on Tumor Cell Lines with Different BRCA Mutation Status. *Russ. J. Bioorganic Chem.* 51 (3), 1128–1136, [10.1134/S1068162024606694](https://doi.org/10.1134/S1068162024606694)
33. Shi X, Fedulova AS, Kotova EY, Maluchenko NV, Armeev GA, Chen Q, Prasanna C, Sivkina AL, Feofanov AV, **Kirpichnikov MP**, Nordensköld L, Shaytan AK, Studitsky VM (2025). Histone tetrasome dynamics affects chromatin transcription. *Nucleic Acids Res* 53 (8), , [10.1093/nar/gkaf356](https://doi.org/10.1093/nar/gkaf356)
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35. Kocharovskaya MV, Pichkur EB, Ivannikov AD, Kharlampieva DD, Graftskaia EN, Lyukmanova EN, **Kirpichnikov MP**, Shenkarev ZO (2025). Structure and dynamics of Alpha B.1.1.7 SARS-CoV-2 S-protein in complex with Fab of neutralizing antibody REGN10987. *Biochem Biophys Res Commun* 755, 151558, [10.1016/j.bbrc.2025.151558](https://doi.org/10.1016/j.bbrc.2025.151558)
36. Alekhin VA, Nazarova SF, Gizatullina DR, Lopatina ET, **Kirpichnikov MP**, Ostrovsky MA, Gordeliy VI, Ilyinsky NS (2025). Lysosome Functioning as a Process that Slows Down Aging. *Biochem (Mosc) Suppl Ser A Membr Cell Biol* 19 (1), 3–11, [10.1134/S1990747824700387](https://doi.org/10.1134/S1990747824700387)
37. Petrovskaya LE, Bolshakov VA, Lukashev EP, Kryukova EA, Maksimov EG, Rubin AB, Dolgikh DA, Balashov SP, **Kirpichnikov MP** (2025). Engineering of thermal stability in the recombinant xanthorhodopsin from *Salinibacter ruber*. *BIOCHIM BIOPHYS ACTA* 1866 (2), 149547, [10.1016/j.bbabi.2025.149547](https://doi.org/10.1016/j.bbabi.2025.149547)
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40. Shlepova OV, Bychkov ML, Shipunova VO, Shramova EI, Shulepko MA, Gornostaeva TY, Kiseleva EA, Kukushkin ID, Kazakov VA, Tukhovskaya EA, Dyachenko IA, Murashev AN, Shenkarev ZO, Deyev SM, **Kirpichnikov MP**, Lyukmanova EN (2025). Combination with a Low Dose of Doxorubicin Further Boosts the Antitumor Effect of SLURP-1 In Vivo and Associates with EGFR Down-Regulation. *Acta Naturae* 17 (1), 87–96, [10.32607/actanaturae.27526](https://doi.org/10.32607/actanaturae.27526)
41. Lyukmanova EN, Pichkur EB, Nolde DE, Kocharovskaya MV, Manuvera VA, Shirokov DA, Kharlampieva DD, Graftskaia EN, Svetlova JI, Lazarev VN, Varizhuk AM, **Kirpichnikov MP**, Shenkarev ZO (2024). Structure and dynamics of the interaction of Delta and Omicron BA.1 SARS-CoV-2 variants with REGN10987 Fab reveal mechanism of antibody action. *Commun Biol* 7 (1), 1698, [10.1038/s42003-024-07422-9](https://doi.org/10.1038/s42003-024-07422-9)
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