Резюме: Мышкин Михаил Юрьевич



Адрес

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

Контакты

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Образование

2014–2018	Московская обл., г.Долгопрудный	МФТИ (ГУ)	аспирантура
2007–2014	Московская обл., г.Долгопрудный	МФТИ (ГУ)	Бакалавриат, Магистратура

Преподавание

2021–наст.вр.	Россия, Москва	РНИМУ им. Пирогова	Практикум по биоинформатике, магистерские программы "Медицинская Биоинформатика" и "Молекулярная Иммунология"
2020–2022	Россия, Москва	МГУ им.Ломоносова	Практикум по структурной биологии (расчет структуры белка методом ЯМР, работа в программе Pymol), магистратура "Структурная Биология"

Работа в ИБХ

2025–наст.вр.	Научный сотрудник	
	Инженер-исследователь	
2021–2025	Младший научный сотрудник	
2021	Младший научный сотрудник	

Владение языками

русский, английский

Гранты и проекты

2025–наст.вр.	Анализ разнообразия Т-клеточных популяций у пациентов с преждевременным старением (прогероидный синдром Хатчинсона-Гилфорда) для оценки их иммунологического возраста
2021–2023	Структура и метаболизм люциферина биолюминесцентных энхитреид Henlea sp.

2019–2022	Структурная биология мембранных белков для создания новых лекарственных и диагностических средств

Публикации

1. Nikolaev NA, **Myshkin MY**, Kolobova EA, Shagina IA, Kechko OI, Varshavskaya KB, Barsova EV, Grigoreva TV, Mitkevich VA, Merzlyak EM, Kozin SA, Makarov AA, Chudakov DM, Lukyanov SA, Grigorova IL, Britanova OV (2026). BCR Repertoire Analysis and Cloning of Antibody Candidates Targeting Native and Asp7-Isomerized β-Amyloid. *Immunology* , , 10.1111/imm.70235
2. **Myshkin MY**, Leyn SA, Egorov ES, Shelyakin PV, Staroverov DB, Shagina IA, Kan NE, Lupyr KR, Barsova EV, Dzyubinskaya EV, Ventura-Carmenate Y, Tyutyunnik VL, Rebrikov DV, Chudakov DM, Britanova OV (2026). TCR repertoire shaping of naïve T cell subsets in human ontogeny.*Front Immunol* 17, 1738633, 10.3389/fimmu.2026.1738633
3. Shagina IA, Turchaninova MA, Golovina OA, Bufeeva LS, Zhurina TI, Saifullin RF, **Myshkin MY**, Mutovina ZY, Britanova OV (2025). Panel of IFN-I-induced genes in systemic scleroderma: a stratification biomarker potential. *Bulletin of Russian State Medical University*2025 September-October (5), 12–21, 10.24075/brsmu.2025.047
4. Sukhov DA, Kholoshenko IV, Petrova TV, Romanenko GA, **Myshkin MY**, Kost VY, Trofimov DY, Usman NY, Barsova EV (2024). LoRI, a new recombinant RNase inhibitor for in vitro applications.*Bulletin of Russian State Medical University* (5), 57–64, 10.24075/brsmu.2024.043
5. Tsareva A, Shelyakin PV, Shagina IA, **Myshkin MY**, Merzlyak EM, Kriukova VV, Apt AS, Linge IA, Chudakov DM, Britanova OV (2024). Aberrant adaptive immune response underlies genetic susceptibility to tuberculosis. *Front Immunol* 15, 1380971, 10.3389/fimmu.2024.1380971
6. Izosimova AV, Shabalkina AV, **Myshkin MY**, Shurganova EV, Myalik DS, Ryzhichenko EO, Samitova AF, Barsova EV, Shagina IA, Britanova OV, Yuzhakova DV, Sharonov GV (2024). Local Enrichment with Convergence of Enriched T-Cell Clones Are Hallmarks of Effective Peptide Vaccination against B16 Melanoma. *Vaccines (Basel)* 12 (4), 345, 10.3390/vaccines12040345
7. Vakhitova M, **Myshkin M**, Staroverov D, Shagina I, Izraelson M, Tverdova N, Britanova O, Merzlyak E (2023). A Rapid Method for Detection of Antigen-Specific B Cells. *Cells* 12 (5), , 10.3390/cells12050774
8. Paramonov AS, Shulepko MA, Makhonin AM, Bychkov ML, Kulbatskii DS, Chernikov AM, **Myshkin MY**, Shabelnikov SV, Shenkarev ZO, Kirpichnikov MP, Lyukmanova EN (2022). New Three-Finger Protein from Starfish Asteria rubens Shares Structure and Pharmacology with Human Brain Neuromodulator Lynx2. *Mar Drugs* 20 (8), , 10.3390/md20080503
9. Ryazantsev DY, **Myshkin MY**, Alferova VA, Tsvetkov VB, Shustova EY, Kamzeeva PN, Kovalets PV, Zaitseva ER, Baleeva NS, Zatsepin TS, Shenkarev ZO, Baranov MS, Kozlovskaya LI, Aralov AV (2021). Probing gfp chromophore analogs as anti-hiv agents targeting ltr-iii g-quadruplex. *Biomolecules* 11 (10), , 10.3390/biom11101409
10. Bolosov IA, Panteleev PV, Sychev SV, Sukhanov SV, Mironov PA, **Myshkin MY**, Shenkarev ZO, Ovchinnikova TV (2021). Dodecapeptide Cathelicidins of Cetartiodactyla: Structure, Mechanism of Antimicrobial Action, and Synergistic Interaction With Other Cathelicidins. *Front Microbiol* 12, 725526, 10.3389/fmicb.2021.725526
11. **Myshkin MY**, Paramonov AS, Kulbatskii DS, Surkova EA, Berkut AA, Vassilevski AA, Lyukmanova EN, Kirpichnikov MP, Shenkarev ZO (2021). Voltage-Sensing Domain of the Third Repeat of Human Skeletal Muscle NaV1.4 Channel As a New Target for Spider Gating Modifier Toxins. *Acta Naturae* 13 (1), 134–139, 10.32607/actanaturae.11279
12. **Myshkin MY**, Männikkö R, Krumkacheva OA, Kulbatskii DS, Chugunov AO, Berkut AA, Paramonov AS, Shulepko MA, Fedin MV, Hanna MG, Kullmann DM, Bagryanskaya EG, Arseniev AS, Kirpichnikov MP, Lyukmanova EN, Vassilevski AA, Shenkarev ZO (2019). Cell-Free Expression of Sodium Channel Domains for Pharmacology Studies. Noncanonical Spider Toxin Binding Site in the Second Voltage-Sensing Domain of Human Nav1.4 Channel. *Front Pharmacol* 10, 953, 10.3389/fphar.2019.00953

13. **Myshkin MY**, Dubinnyi MA, Kulbatskii DS, Lyukmanova EN, Kirpichnikov MP, Shenkarev ZO (2019). CombLabel: rational design of optimized sequence-specific combinatorial labeling schemes. Application to backbone assignment of membrane proteins with low stability. *J Biomol NMR* 73 (10-11), 531–544, 10.1007/s10858-019-00259-z
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15. Männikkö R, Shenkarev ZO, Thor MG, Berkut AA, **Myshkin MY**, Paramonov AS, Kulbatskii DS, Kuzmin DA, Castañeda MS, King L, Wilson ER, Lyukmanova EN, Kirpichnikov MP, Schorge S, Bosmans F, Hanna MG, Kullmann DM, Vassilevski AA (2018). Spider toxin inhibits gating pore currents underlying periodic paralysis. *Proc Natl Acad Sci U S A* 115 (17), 4495–4500, 10.1073/pnas.1720185115
16. **Myshkin MY**, Paramonov AS, Kulbatskii DS, Lyukmanova EN, Kirpichnikov MP, Shenkarev ZO (2017). “Divide and conquer” approach to the structural studies of multidomain ion channels by the example of isolated voltage sensing domains of human Kv2.1 and Nav1.4 channels. *Russ. J. Bioorganic Chem.* 43 (6), 634–643, 10.1134/S1068162017060103
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18. Panteleev PV, **Myshkin MY**, Shenkarev ZO, Ovchinnikova TV (2017). Dimerization of the antimicrobial peptide arenicin plays a key role in the cytotoxicity but not in the antibacterial activity. *Biochem Biophys Res Commun* 482 (4), 1320–1326, 10.1016/j.bbrc.2016.12.035
19. **Мышкин МЮ**, Парамонов АС, Кульбацкий ДС, Люкманова ЕН, Кирпичников МП, Шенкарёв ЗО (2017). ПОДХОД “РАЗДЕЛЯЙ И ВЛАСТВУЙ” ДЛЯ СТРУКТУРНЫХ ИССЛЕДОВАНИЙ МУЛЬТИДОМЕННЫХ ИОННЫХ КАНАЛОВ НА ПРИМЕРЕ ИЗОЛИРОВАННЫХ ПОТЕНЦИАЛ-ЧУВСТВИТЕЛЬНЫХ ДОМЕНОВ КАНАЛОВ Kv2.1 И Nav1.4 ЧЕЛОВЕКА1. 43 (6), 608–619.
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21. Berkut AA, Peigneur S, **Myshkin MY**, Paramonov AS, Lyukmanova EN, Arseniev AS, Grishin EV, Tytgat J, Shenkarev ZO, Vassilevski AA (2015). Structure of membrane-active toxin from crab spider Heriaeus melloteei suggests parallel evolution of sodium channel gating modifiers in Araneomorphae and Mygalomorphae. *J Biol Chem* 290 (1), 492–504, 10.1074/jbc.M114.595678