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Образование

2008– 2008	Россия, Москва	Московский государственный университет им. М.В. Ломоносова, кафедра биоинженерии биологического факультета	Защита кандидатской диссертации по биологическим наукам (специальность 03.00.02 Биофизика)
2005– 2008	Россия, Долгопрудный	Московский Физико-Технический Институт (Государственный Университет) (МФТИ)	Аспирант.
2002– 2005	Россия, Москва	Институт Биоорганической химии имени академиков М.М. Шемякина и Ю.А. Овчинникова РАН, Учебно Научный Центр.	
1999– 2005	Россия, Долгопрудный	Московский Физико-Технический Институт (Государственный Университет) (МФТИ)	Бакалавр. Магистр.

Работа

2020–наст.вр.	Россия, Долгопрудный	МФТИ	доцент
2002–наст.вр.	Россия, Москва	ИБХ РАН	инж.-иссл. / мнс / нс /снс
2008–2018	Россия, Москва	МГУ им М.В. Ломоносова	научный сотрудник

Работа в ИБХ

2018–наст.вр.	Старший научный сотрудник
2008–2018	Научный сотрудник
2002–2008	Младший научный сотрудник

Владение языками

русский, английский

Научные интересы

Структурная биология, молекулярная биология, биофизика, биохимия, эволюция (биология), эволюция (физика).

Членство в сообществах

FEBS

Степени и звания

2009 Кандидат наук (Биологические науки, 03.00.02 — Биофизика)

Ссылки и контакты

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Гранты и проекты

2022– наст.вр. [Структурные основы функционирования нейротрофиновых рецепторов](#)

2020– 2022 [Исследование структурных основ взаимодействия мембранных белков P75 и SORCS2 в процессе внутриклеточной сигнализации](#)

2018– 2023 [Разработка новых молекулярных инструментов ферментативного и флуорогенного флуоресцентного мечения для прижизненной визуализации в живых системах](#)

2017– 2018 [Изучение процессов связывания с лигандом и структурной динамики необычного хемокинового рецептора D6R человека с применением спектроскопии ЯМР](#)

2019– 2022 [Структурная биология мембранных белков для создания новых лекарственных и диагностических средств](#)

2020– 2022 [Изучение роли внеклеточного примембранного региона и трансмембранного домена рецептора нейротрофинов TrkA в процессе передачи сигнала через мембрану](#)

2020– 2021 [Исследование структурных основ внутриклеточной сигнализации Толл-подобных рецепторов методами спектроскопии ЯМР в растворе](#)

2014– 2018 [Структурные основы молекулярных механизмов передачи сигнала интегральными мембранными белками I типа](#)

Публикации

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2. Kot EF, **Goncharuk SA**, Franco ML, McKenzie DM, Arseniev AS, Benito-Martínez A, Costa M, Cattaneo A, Hristova K, Vilar M, Mineev KS (2024). Structural basis for the transmembrane signaling and antidepressant-induced activation of the receptor tyrosine kinase TrkB. *Nat Commun* 15 (1), 9316, [10.1038/s41467-024-53710-7](https://doi.org/10.1038/s41467-024-53710-7)
3. Motov VV, Kot EF, Kislova SO, Bocharov EV, Arseniev AS, Boldyrev IA, **Goncharuk SA**, Mineev KS (2024). On the Properties of Styrene–Maleic Acid Copolymer–Lipid Nanoparticles: A Solution NMR Perspective. *Polymers (Basel)* 16 (21), 3009, <https://doi.org/10.3390/polym16213009>
4. Lushpa VA, Goncharuk MV, Talyzina IA, Arseniev AS, Bocharov EV, Mineev KS, **Goncharuk SA** (2024). TIR domains of TLR family—from the cell culture to the protein sample for structural studies. *PLoS One* 19 (7), e0304997, [10.1371/journal.pone.0304997](https://doi.org/10.1371/journal.pone.0304997)
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6. Kislova S, Motov V, Myasnyanko I, Pytskii I, **Goncharuk S**, Boldyrev I (2024). Conformational transitions of maleic acid segment drive pH induced changes in SMA polymer structure and solubility. *J Mol Liq* 398, ,

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 32. Nadezhdin KD, García-Carpio I, **Goncharuk SA**, Mineev KS, Arseniev AS, Vilar M (2016). Structural basis of p75 transmembrane domain dimerization. *J Biol Chem* 291 (23), 12346–12357, [10.1074/jbc.M116.723585](https://doi.org/10.1074/jbc.M116.723585)
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