

## Резюме: Гончарук Сергей Александрович



### Адрес

Федеральное государственное  
бюджетное учреждение науки  
Институт биоорганической химии им.  
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### Контакты

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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

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2009 Кандидат наук (Биологические науки, 03.00.02 — Биофизика)

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## Ссылки и контакты

<https://www.penzhouse.com>, ORCID: [0000-0002-0263-6462](https://orcid.org/0000-0002-0263-6462), [Google Scholar](https://scholar.google.com/citations?user=Q-4481-2016), ResearcherID: [Q-4481-2016](https://pubs.scopopus.com/auth/mapping/0000-0002-0263-6462.html), Scopus: [35322291200](https://pubs.scopopus.com/auth/mapping/0000-0002-0263-6462.html), SPIN ПИНЦ: 1482-3575, ID ПИНЦ - 1059484

## Гранты и проекты

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

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

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

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

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

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

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

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## Публикации

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- Kornilov FD, Slonimskiy YB, Lunegova DA, Egorkin NA, Savitskaya AG, Kleymenov SY, Maksimov EG, **Goncharuk SA**, Mineev KS, Sluchanko NN (2023). Structural basis for the ligand promiscuity of the neofunctionalized, carotenoid-binding fasciclin domain protein AstaP. *Commun Biol* 6 (1), 471, [10.1038/s42003-023-04832-z](https://doi.org/10.1038/s42003-023-04832-z)
- Kornilov FD, Shabalkina AV, Lin C, Volynsky PE, Kot EF, Kayushin AL, Lushpa VA, Goncharuk MV, Arseniev AS, **Goncharuk SA**, Wang X, Mineev KS (2023). The architecture of transmembrane and cytoplasmic juxtamembrane regions of Toll-like receptors. *Nat Commun* 14 (1), 1503, [10.1038/s41467-023-37042-6](https://doi.org/10.1038/s41467-023-37042-6)
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8. Lushpa VA, Baleeva NS, **Goncharuk SA**, Goncharuk MV, Arseniev AS, Baranov MS, Mineev KS (2022). Spatial Structure of NanoFAST in the Apo State and in Complex with its Fluorogen HBR-DOM2. *Int J Mol Sci* 23 (19), [10.3390/ijms231911361](https://doi.org/10.3390/ijms231911361)
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  10. Kot EF, Franco ML, Vasilieva EV, Shabalkina AV, Arseniev AS, **Goncharuk SA**, Mineev KS, Vilar M (2022). Intrinsically disordered regions couple the ligand binding and kinase activation of Trk neurotrophin receptors. *iScience* 25 (6), 104348, [10.1016/j.isci.2022.104348](https://doi.org/10.1016/j.isci.2022.104348)
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  32. Bocharov EV, Lesovoy DM, **Goncharuk SA**, Goncharuk MV, Hristova K, Arseniev AS (2013). Structure of FGFR3 transmembrane domain dimer: Implications for signaling and human pathologies. *Structure* 21 (11), 2087–2093, [10.1016/j.str.2013.08.026](https://doi.org/10.1016/j.str.2013.08.026)
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