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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

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
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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3. Goncharuk MV, Vasileva EV, Ananiev EA, Gorokhovatsky AY, Bocharov EV, Mineev KS, **Goncharuk SA** (2023). Facade-Based Bicelles as a New Tool for Production of Active Membrane Proteins in a Cell-Free System. *Int J Mol Sci* 24 (19), , 10.3390/ijms241914864
4. Moliner R, Girych M, Brunello CA, Kovaleva V, Biojone C, Enkavi G, Antenucci L, Kot EF, **Goncharuk SA**, Kaurinkoski K, Kuutti M, Fred SM, Elsilä LV, Sakson S, Cannarozzo C, Diniz CRAF, Seiffert N, Rubiolo A, Haapaniemi H, Meshi E, Nagaeva E, Öhman T, Róg T, Kankuri E, Vilar M, Varjosalo M, Korpi ER, Permi P, Mineev KS, Saarma M, Vattulainen I, Casarotto PC, Castrén E (2023). Psychedelics promote plasticity by directly binding to BDNF receptor TrkB. *Nat Neurosci* 26 (6), 1032–1041, 10.1038/s41593-023-01316-5
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12. 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
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39. **Goncharuk SA**, Shulga AA, Ermolyuk YS, Kuzmichev PK, Sobol VA, Bocharov EV, Chupin VV, Arseniev AS, Kirpichnikov MP (2009). Bacterial synthesis, purification, and solubilization of membrane protein KCNE3, a regulator of voltage-gated potassium channels. *Biochemistry (Mosc)* 74 (12), 1344–1349, 10.1134/S0006297909120074