Резюме: Чугунов Антон Олегович



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	Брюссель, Бельгия	Стажировка в Свободном университете Брюсселя	Моделирование структуры комплекса вазоактивного интестинального пептида (ВИП) с его рецептором. Дизайн селективной пары неорецептор-неолиганд
2003–2006	Россия, Москва	Московский государственный университет им. М.В. Ломоносова, кафедра биоинженерии биологического факультета	Диплом кандидата физико-математических наук. Тема диссертации: «Новые подходы к молекулярному моделированию трансмембранных доменов рецепторов, действие которых опосредовано G-белками»
1998–2003	Россия, Москва	Московский государственный университет им. М.В. Ломоносова, кафедра биофизики биологического факультета	Диплом биофизика с отличием по теме: «Молекулярное моделирование человеческих рецепторов MT1 и MT2 мелатонина»
1994–1998	Россия, Зеленоград	ФМШ №1030	Окончил с золотой медалью

Работа в ИБХ

2018–наст.вр.	Старший научный сотрудник	
	Старший научный сотрудник	
2026–2026	Доцент	

Членство в советах и комиссиях ИБХ

	Ученый совет

Владение языками

Русский, Английский

Награды

2013	Медаль Европейской Академии	За работу «Компьютерное моделирование структуры и функций биомембран и мембранных белков»

Научные интересы

Меня интересуют принципы пространственной организации белков и механизмы их сворачивания. В первую очередь это касается мембранных белков и рецепторов, таких как G-белоксопряжённые рецепторы. Поскольку выбранная мной методическая сфера — это компьютерное моделирование структуры и динамики биомакромолекул, больше всего мне интересно, удастся ли когда-нибудь моделировать все эти важнейшие процессы на компьютере — без такой большой оглядки на эксперимент, которую всегда приходится делать теперь.

Степени и звания

	Кандидат наук (Физико-математические науки, 03.00.02 — Биофизика)

Ссылки и контакты

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Гранты и проекты

2027–наст.вр.	Омега-токи в мутантных потенциал-чувствительных доменах Nav1.4: от молекулярного моделирования к дизайну пептидных блокаторов

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2. Popkova D, Menshov A, Sintsova O, Paramonov A, Kalina R, Panina I, Kalinovskii A, Osmakov D, Shamatova M, Dmitrenok P, **Chugunov A**, Kozlov S, Efremov R, Shenkarev Z, Gladkikh I, Leychenko E (2026). Novel β-defensin-like marine miniprotein magnificamide-2 with a remarkable potency in inhibiting mammalian α-amylases. *Int J Biol Macromol* 376, 153418, 10.1016/j.ijbiomac.2026.153418
3. Panina IS, Vlasova YS, Panina YS, Krasilnikov MS, Alferova VA, Korshun VA, **Chugunov AO** (2026). Towards molecular dynamics simulation of membrane-targeting photosensitizing antivirals. *Phys Chem Chem Phys* 28 (13), 8039–8046, 10.1039/d5cp04006j
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7. Scherbakov KA, Vassilevski AA, **Chugunov AO** (2025). Potassium channel selectivity is determined by square antiprismatic ion chelation. *Int J Biol Macromol* 305 (Pt 1), 140690, 10.1016/j.ijbiomac.2025.140690
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