

Резюме: Кудрявцев Денис Сергеевич



Адрес

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

Контакты

kudryavtsev@ibch.ru
<https://www.ibch.ru/ru/users/856>

Образование

2024– 2024	Россия, Москва	АНО ДПО "Образовательный центр "Гарант"	Управление государственными и муниципальными закупками
2017– 2020	Россия, Москва	МГУ им. М.В. Ломоносова, юридический факультет	
2006– 2011	Россия, Москва	МГУ им. М.В. Ломоносова, биологический факультет, кафедра биоорганической химии	

Преподавание

2023–наст.вр.	Москва	Сеченовский университет
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Работа в ИБХ

2022–наст.вр.	Старший научный сотрудник
2017–2022	Научный сотрудник

Членство в советах и комиссиях ИБХ

Методическая комиссия

Владение языками

английский

Награды

2016	Премия Правительства Москвы молодым ученым	За разработку методов биотехнологического получения и анализа механизмов действия фармакологически перспективных лигандов нейрорецепторов человека
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Научные интересы

аллостерические взаимодействия, нейрохимия, рациональный драг-дизайн, криминалистическая техника, интеллектуальная собственность, эмпирические методы в праве

Членство в сообществах

Европейское нейрохимическое общество (ESN) с 2015 г.

Международное общество токсикологии (IST) с 2021 г.

Степени и звания

2016 Кандидат наук (Биологические науки, 03.00.03 — Молекулярная биология)

Гранты и проекты

2016–2018 [Исследование молекулярного механизма ингибирования мышечного никотинового рецептора макалумамином G](#)

2021–2024 [Исследование роли цис-петельных рецепторов во взаимодействиях клеток глиобластомы с их микроокружением](#)

2018–2021 [Клинико-экспериментальное исследование на овцах эффективности миорелаксантного полипептида аземиопсина и его аналогов](#)

Публикации

- Severyukhina MS, Ojomoko LO, Shelukhina IV, **Kudryavtsev DS**, Kryukova EV, Epifanova LA, Denisova DA, Averin AS, Ismailova AM, Shaykhutdinova ER, Dyachenko IA, Egorova NS, Murashev AN, Tsetlin VI, Utkin YN (2024). Non-conventional toxin WTX and its disulfide-fixed synthetic fragments: Interaction with nicotinic acetylcholine receptors and reduction of blood pressure. *Int J Biol Macromol* 288, 138626, [10.1016/j.ijbiomac.2024.138626](#)
- Melentiev PN, Kalmykov AS, Gritchenko AS, Shemeteva MP, Safonova AM, Markov MS, Balykin VI, Bukatin AS, Vaulin NV, Belov DA, Evstrapov AA, Baklykov DA, Andriyash AV, Barbasheva AA, Kuguk AK, Ryzhkov VV, Rodionov IA, **Kudryavtsev DS**, Mozhaeva VA, Son LV, Tsetlin VI, Khlebtsov BN, Kobzev MS, Kuznetsova YO, Sharipov BT, Yashkin AS, Alekseev YI (2024). Optical methods for detection of single biomolecules: visualization, sensorics, sequencing of DNA molecules. *PHYS-USP+* 67 (11), 1069–1083, [10.3367/UFNe.2024.07.039720](#)
- Kudryavtsev DS**, Mozhaeva VA, Ivanov IA, Siniavin AE, Kalmykov AS, Gritchenko AS, Khlebtsov BN, Wang SP, Kang B, Tsetlin VI, Balykin VI, Melentiev PN (2024). Optical detection of infectious SARS-CoV-2 virions by counting spikes. *Nanoscale* 16 (26), 12424–12430, [10.1039/d4nr01236d](#)
- Luo A, He J, Yu J, Wu Y, Harvey PJ, Kasheverov IE, **Kudryavtsev DS**, McIntosh JM, Tsetlin VI, Craik DJ, Zhangsun D, Luo S (2024). Aspartic acid mutagenesis of α O-Conotoxin GeXIVA isomers reveals arginine residues crucial for inhibition of the α 9 α 10 nicotinic acetylcholine receptor. *Int J Biol Macromol* 271 (Pt 1), 132472, [10.1016/j.ijbiomac.2024.132472](#)
- Mozhaeva VA, Starkov VG, **Kudryavtsev DS**, Prokhorov KA, Garnov SV, Utkin YN (2024). Analysis of intra-specific variations in the venom of individual snakes based on Raman spectroscopy. *Spectrochim Acta A* 314, 124239, [10.1016/j.saa.2024.124239](#)
- Son L, Kost V, Maiorov V, Sukhov D, Arkhangelskaya P, Ivanov I, **Kudryavtsev D**, Siniavin A, Utkin Y, Kasheverov I (2024). Efficient Expression in *Leishmania tarentolae* (LEXSY) of the Receptor-Binding Domain of the SARS-CoV-2 S-Protein and the Acetylcholine-Binding Protein from *Lymnaea stagnalis*. *Molecules* 29 (5), , [10.3390/molecules29050943](#)
- Gondarenko E, Mazur D, Masliakova M, Ryabukha Y, Kasheverov I, Utkin Y, Tsetlin V, Shahparonov M, **Kudryavtsev D**, Antipova N (2024). Subtype-Selective Peptide and Protein Neurotoxic Inhibitors of Nicotinic Acetylcholine Receptors Enhance Proliferation of Patient-Derived Glioblastoma Cell Lines. *Toxins (Basel)* 16 (2), 80, [10.3390/toxins16020080](#)
- Kost V, Sukhov D, Ivanov I, Kasheverov I, Ojomoko L, Shelukhina I, Mozhaeva V, **Kudryavtsev D**, Feofanov A, Ignatova A, Utkin Y, Tsetlin V (2023). Comparison of Conformations and Interactions with Nicotinic Acetylcholine Receptors for E. coli-Produced and Synthetic Three-Finger Protein SLURP-1. *Int J Mol Sci* 24 (23), 16950, [10.3390/ijms242316950](#)
- Kalinovskii AP, Pushkarev AP, Mikhailenko AD, **Kudryavtsev DS**, Belozerova OA, Shmygarev VI, Yatskin ON, Korolkova YV, Kozlov SA, Osmakov DI, Popov A, Andreev YA (2023). Dual Modulator of ASIC Channels and GABAA Receptors from Thyme Alters Fear-Related Hippocampal Activity. *Int J Mol Sci* 24 (17), , [10.3390/ijms241713148](#)

10. Mozhaeva V, Starkov V, **Kudryavtsev D**, Prokhorov K, Garnov S, Utkin Y (2023). Differentiation of snake venom using Raman spectroscopic analysis. *J Mater Chem B Mater Biol Med* 11 (27), 6435–6442, [10.1039/d3tb00829k](https://doi.org/10.1039/d3tb00829k)
11. Ivanov IA, Siniavin AE, Palikov VA, Senko DA, Shelukhina IV, Epifanova LA, Ojomoko LO, Belukhina SY, Prokopev NA, Landau MA, Palikova YA, Kazakov VA, Borozdina NA, Bervinova AV, Dyachenko IA, Kasheverov IE, Tsetlin VI, **Kudryavtsev DS** (2023). Analogs of 6-Bromohypaphorine with Increased Agonist Potency for $\alpha 7$ Nicotinic Receptor as Anti-Inflammatory Analgesic Agents. *Mar Drugs* 21 (6), 368, [10.3390/md21060368](https://doi.org/10.3390/md21060368)
12. Kasheverov IE, Logashina YA, Kornilov FD, Lushpa VA, Maleeva EE, Korolkova YV, Yu J, Zhu X, Zhangsun D, Luo S, Stensvåg K, **Kudryavtsev DS**, Mineev KS, Andreev YA (2023). Peptides from the Sea Anemone *Metridium senile* with Modified Inhibitor Cystine Knot (ICK) Fold Inhibit Nicotinic Acetylcholine Receptors. *Toxins (Basel)* 15 (1), 28, [10.3390/toxins15010028](https://doi.org/10.3390/toxins15010028)
13. Mozhaeva V, **Kudryavtsev D**, Prokhorov K, Utkin Y, Gudkov S, Garnov S, Kasheverov I, Tsetlin V (2022). Toxins' classification through Raman spectroscopy with principal component analysis. *Spectrochim Acta A* 278, 121276, [10.1016/j.saa.2022.121276](https://doi.org/10.1016/j.saa.2022.121276)
14. Shaykhutdinova ER, Kondrakhina AE, Ivanov IA, **Kudryavtsev DS**, Dyachenko IA, Murashev AN, Tsetlin VI, Utkin YN (2022). Synthetic Analogs of 6-Bromohypaphorine, a Natural Agonist of Nicotinic Acetylcholine Receptors, Reduce Cardiac Reperfusion Injury in a Rat Model of Myocardial Ischemia. *Dokl Biochem Biophys* 503 (1), 47–51, [10.1134/S1607672922020132](https://doi.org/10.1134/S1607672922020132)
15. Kasheverov I, **Kudryavtsev D**, Shelukhina I, Nikolaev G, Utkin Y, Tsetlin V (2022). Marine Origin Ligands of Nicotinic Receptors: Low Molecular Compounds, Peptides and Proteins for Fundamental Research and Practical Applications. *Biomolecules* 12 (2), 189, [10.3390/biom12020189](https://doi.org/10.3390/biom12020189)
16. Tsetlin V, Haufe Y, Safronova V, Serov D, Shadamarshan P, Son L, Shelukhina I, **Kudryavtsev D**, Kryukova E, Kasheverov I, Nicke A, Utkin Y (2021). Interaction of $\alpha 9\alpha 10$ Nicotinic Receptors With Peptides and Proteins From Animal Venoms. *Front Cell Neurosci* 15, 765541, [10.3389/fncel.2021.765541](https://doi.org/10.3389/fncel.2021.765541)
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- Cells and Macrophages? *Front Cell Neurosci* 14, 548376, [10.3389/fncel.2020.548376](https://doi.org/10.3389/fncel.2020.548376)
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 26. **(конференция)** Utkin Y, Kuch U, Osipov A, Kasheverov I, **Kudryavtsev D**, Starkov V, Ziganshin R, Mebs D, Tsetlin V (2020). Three finger neurotoxins: Recent discoveries and arising questions. *Toxicon* 177 Suppl 1, S10–S11, [10.1016/j.toxicon.2019.10.048](https://doi.org/10.1016/j.toxicon.2019.10.048)
 27. Vulfius CA, Lebedev DS, Kryukova EV, **Kudryavtsev DS**, Kolbaev SN, Utkin YN, Tsetlin VI (2020). NU-120596, a Positive Allosteric Modulator of Mammalian $\alpha 7$ Nicotinic Acetylcholine Receptor, is a Negative Modulator of Ligand-Gated Chloride-Selective Channels of the Gastropod *Lymnaea stagnalis*. *J Neurochem* 155 (3), 274–284, [10.1111/jnc.15020](https://doi.org/10.1111/jnc.15020)
 28. Siniavin AE, Streltsova MA, **Kudryavtsev DS**, Shelukhina IV, Utkin YN, Tsetlin VI (2020). Activation of $\alpha 7$ Nicotinic Acetylcholine Receptor Upregulates HLA-DR and Macrophage Receptors: Potential Role in Adaptive Immunity and in Preventing Immunosuppression. *Biomolecules* 10 (4), 507, [10.3390/biom10040507](https://doi.org/10.3390/biom10040507)
 29. **Kudryavtsev DS**, Tabakmakher VM, Budylin GS, Egorova NS, Efremov RG, Ivanov IA, Belukhina SY, Jegorov AV, Kasheverov IE, Kryukova EV, Shelukhina IV, Shirshin EA, Zhdanova NG, Zhmak MN, Tsetlin VI (2020). Complex approach for analysis of snake venom α -neurotoxins binding to HAP, the high-affinity peptide. *Sci Rep* 10 (1), 3861, [10.1038/s41598-020-60768-y](https://doi.org/10.1038/s41598-020-60768-y)
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 31. Lebedev D, Kryukova E, Ivanov I, Egorova N, Timofeev N, Spirova E, Tufanova E, Siniavin A, **Kudryavtsev D**, Kasheverov I, Zouridakis M, Katsarava R, Zavrashvili N, Iagorshvili I, Tzartos S, Tsetlin V (2019). Oligoarginine Peptides, a New Family of nAChR Inhibitors. *Mol Pharmacol* 96 (5), 664–673, [10.1124/mol.119.117713](https://doi.org/10.1124/mol.119.117713)
 32. **(конференция)** Siniavin AE, Streltsova MA, **Kudryavtsev DS**, Tsetlin VI (2019). $\alpha 7$ nicotine acetylcholine receptor (NACHR) agonists strongly activate classical macrophages and increase the expression of HLA-DR molecules. *Allergy* 74 (S106), 138, [10.1111/all.13959](https://doi.org/10.1111/all.13959)
 33. Kasheverov IE, Oparin PB, Zhmak MN, Egorova NS, Ivanov IA, Gigolaev AM, Nekrasova OV, Serebryakova MV, **Kudryavtsev DS**, Prokopen NA, Hoang AN, Tsetlin VI, Vassilevski AA, Utkin YN (2019). Scorpion toxins interact with nicotinic acetylcholine receptors. *FEBS Lett* 593 (19), 2779–2789, [10.1002/1873-3468.13530](https://doi.org/10.1002/1873-3468.13530)
 34. Kryukova EV, Egorova NS, **Kudryavtsev DS**, Lebedev DS, Spirova EN, Zhmak MN, Garifulina AI, Kasheverov IE, Utkin YN, Tsetlin VI (2019). From Synthetic Fragments of Endogenous Three-Finger Proteins to Potential Drugs. *Front Pharmacol* 10, 748, [10.3389/fphar.2019.00748](https://doi.org/10.3389/fphar.2019.00748)
 35. **(конференция)** Melentiev P, Son L, **Kudryavtsev D**, Afanasiev A, Kasheverov I, Tsetlin V, Balykin V (2019). Ultra-fast single troponine-T molecule sensing. *Optics InfoBase Conference Papers* , , [10.1109/CLEOE-EQEC.2019.8872744](https://doi.org/10.1109/CLEOE-EQEC.2019.8872744)
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 39. Diankin ID, **Kudryavtsev DS**, Zalevsky AO, Tsetlin VI, Golovin AV (2018). New binding mode of SLURP

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 41. **Kudryavtsev DS**, Spirova EN, Shelukhina IV, Son LV, Makarova YV, Utkina NK, Kasheverov IE, Tsetlin VI (2018). Makaluvamine G from the Marine Sponge *Zyzzia fuliginosa* Inhibits Muscle nAChR by Binding at the Orthosteric and Allosteric Sites. *Mar Drugs* 16 (4), , [10.3390/md16040109](https://doi.org/10.3390/md16040109)
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 45. Vulfius CA, Spirova EN, Serebryakova MV, Shelukhina IV, **Kudryavtsev DS**, Kryukova EV, Starkov VG, Kopylova NV, Zhmak MN, Ivanov IA, Kudryashova KS, Andreeva TV, Tsetlin VI, Utkin YN (2016). Peptides from puff adder *Bitis arietans* venom, novel inhibitors of nicotinic acetylcholine receptors. *Toxicon* 121, 70–76, [10.1016/j.toxicon.2016.08.020](https://doi.org/10.1016/j.toxicon.2016.08.020)
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