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Адрес

Федеральное государственное
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Контакты

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Образование

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

Гранты и проекты

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- | | |
|---------------|---|
| 2016–
2018 | Исследование молекулярного механизма ингибирования мышечного никотинового рецептора макалумамином G |
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| 2021–
2024 | Исследование роли цис-петельных рецепторов во взаимодействиях клеток глиобластомы с их микроокружением |
|---------------|--|
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| 2018–
2021 | Клинико-экспериментальное исследование на овцах эффективности миорелаксантного полипептида аземиопсина и его аналогов |
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Публикации

1. **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* , , [10.1039/d4nr01236d](#)
2. 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 $\alpha 9\alpha 10$ nicotinic acetylcholine receptor. *Int J Biol Macromol* 271 (Pt 1), 132472, [10.1016/j.ijbiomac.2024.132472](#)
3. 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](#)
4. 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](#)
5. 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](#)
6. 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](#)
7. 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](#)
8. 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](#)
9. 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](#)
10. 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](#)
11. 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)
12. 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)
 13. 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)
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 16. Siniavin AE, Streltsova MA, Nikiforova MA, **Kudryavtsev DS**, Grinkina SD, Gushchin VA, Mozhaeva VA, Starkov VG, Osipov AV, Lummis SCR, Tsetlin VI, Utkin YN (2021). Snake venom phospholipase A2s exhibit strong virucidal activity against SARS-CoV-2 and inhibit the viral spike glycoprotein interaction with ACE2. *Cell Mol Life Sci* 78 (23), 7777–7794, [10.1007/s00018-021-03985-6](https://doi.org/10.1007/s00018-021-03985-6)
 17. **Kudryavtsev D**, Isaeva A, Barkova D, Spirova E, Mukhutdinova R, Kasheverov I, Tsetlin V (2021). Point Mutations of Nicotinic Receptor $\alpha 1$ Subunit Reveal New Molecular Features of G153S Slow-Channel Myasthenia. *Molecules* 26 (5), , [10.3390/molecules26051278](https://doi.org/10.3390/molecules26051278)
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 21. Melentiev PN, Son LV, **Kudryavtsev DS**, Kasheverov IE, Tsetlin VI, Esenaliev RO, Balykin VI (2020). Ultrafast, Ultrasensitive Detection and Imaging of Single Cardiac Troponin-T Molecules. *ACS Sens* 5 (11), 3576–3583, [10.1021/acssensors.0c01790](https://doi.org/10.1021/acssensors.0c01790)
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 24. (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)
 25. 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)

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29. 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)
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32. 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)
33. (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)
34. Utkin Y, Vassilevski A, **Kudryavtsev D**, Undheim EAB (2019). Editorial: Animal Toxins as Comprehensive Pharmacological Tools to Identify Diverse Ion Channels. *Front Pharmacol* 10 (APR), 423, [10.3389/fphar.2019.00423](https://doi.org/10.3389/fphar.2019.00423)
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41. Shelukhina I, Spirova E, **Kudryavtsev D**, Ojomoko L, Werner M, Methfessel C, Hollmann M, Tsetlin V (2017). Calcium imaging with genetically encoded sensor Case12: Facile analysis of $\alpha 7/\alpha 9$ nAChR mutants. *PLoS*

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43. 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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48. **Kudryavtsev DS**, Shelukhina IV, Son LV, Ojomoko LO, Kryukova EV, Lyukmanova EN, Zhmak MN, Dolgikh DA, Ivanov IA, Kasheverov IE, Starkov VG, Ramerstorfer J, Sieghart W, Tsetlin VI, Utkin YN (2015). Neurotoxins from snake venoms and α -Conotoxin Iml inhibit functionally active Ionotropic γ -aminobutyric acid (GABA) receptors. *J Biol Chem* 290 (37), 22747–22758, [10.1074/jbc.M115.648824](https://doi.org/10.1074/jbc.M115.648824)
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