

Curriculum vitae: Denis Kudryavtsev



Address

Shemyakin–Ovchinnikov Institute of
bioorganic chemistry RAS, Moscow,
Russia

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Education

| | | | |
|---------------|-------------------|--|------------------------------------|
| 2024– 2024 | Russia, Moscow | Garant training | State and municipal procurement |
| 2017– 2020 | Russia, Moscow | Lomonosov Moscow State University, Faculty of Law | |
| 2006– 2011 | Russia, Moscow | Lomonosov Moscow State University, Bioorganic chemistry department of the Biology faculty | |

Teaching

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| 2023–to date | Moscow | Sechenov University |
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IBCh positions

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| 2022–to date | Senior research fellow |
| 2017–2022 | Research fellow |

IBCh memberships

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| Educational-methodical commission |
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Language Proficiency

English

Awards

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| 2016 | Премия Правительства Москвы молодым ученым |
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Scientific interests

allosteric interactions, neurochemistry, rational drug design, forensic science, intellectual property, empirical
methods in law

Scientific societies' membership

Member of European Society for Neurochemistry (ESN)

Member of International Society on Toxinology (IST)

Titles

| | |
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| 2016 | Doctor of Philosophy (Biological sciences) |
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Grants and projects

- 2016–2018 [Study of the molecular mechanism of the muscle nicotinic receptor inhibition by makaluvamine G](#)
- 2021–2024 [The study of the Cys-loop receptor's role in neuroimmune interactions of glioblastoma multiforme](#)
- 2018–2021 [Polypeptide azemiopsin miorelaxant properties study](#)

Publications

1. 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](#)
2. 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](#)
3. **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](#)
4. 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](#)
5. 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](#)
6. 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](#)
7. 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](#)
8. 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](#)
9. Kalinovskii AP, Pushkarev AP, Mikhailenko AD, **Kudryavtsev DS**, Belozero 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](#)
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 α 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)
17. Kasheverov IE, Kuzmenkov AI, **Kudryavtsev DS**, Chudetskiy IS, Shelukhina IV, Barykin EP, Иванов Ivanov IA, Siniavin AE, Ziganshin RH, Baranov MS, Tsetlin VI, Vassilevski AA, Utkin YN (2021). Snake Toxins Labeled by Green Fluorescent Protein or Its Synthetic Chromophore are New Probes for Nicotinic acetylcholine Receptors. *Front Mol Biosci* 8 (8), 753283, [10.3389/fmolb.2021.753283](https://doi.org/10.3389/fmolb.2021.753283)
18. 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)
19. **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)
20. Terpinskaya TI, Osipov AV, Kryukova EV, **Kudryavtsev DS**, Kopylova NV, Yanchanka TL, Palukoshka AF, Gondarenko EA, Zhmak MN, Tsetlin VI, Utkin YN (2021). α -Conotoxins and α -Cobratoxin Promote, while Lipoxygenase and Cyclooxygenase Inhibitors Suppress the Proliferation of Glioma C6 Cells. *Mar Drugs* 19 (2), , [10.3390/md19020118](https://doi.org/10.3390/md19020118)
21. Son L, Kryukova E, Ziganshin R, Andreeva T, **Kudryavtsev D**, Kasheverov I, Tsetlin V, Utkin Y (2021). Novel Three-Finger Neurotoxins from *Naja melanoleuca* Cobra Venom Interact with GABAA and Nicotinic Acetylcholine Receptors. *Toxins (Basel)* 13 (2), , [10.3390/toxins13020164](https://doi.org/10.3390/toxins13020164)
22. Zhu X, Pan S, Xu M, Zhang L, Yu J, Yu J, Wu Y, Fan Y, Li H, Kasheverov IE, **Kudryavtsev DS**, Tsetlin VI, Xue Y, Zhangsun D, Wang X, Luo S (2020). High Selectivity of an α -Conotoxin LvlA Analogue for $\alpha 3\beta 2$ Nicotinic Acetylcholine Receptors Is Mediated by $\beta 2$ Functionally Important Residues. *J Med Chem* 63 (22), 13656–13668, [10.1021/acs.jmedchem.0c00975](https://doi.org/10.1021/acs.jmedchem.0c00975)
23. 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)
24. Nurkhametova D, Siniavin A, Streltsova M, **Kudryavtsev D**, Kudryavtsev I, Giniatullina R, Tsetlin V, Malm T, Giniatullin R (2020). Does Cholinergic Stimulation Affect the P2X7 Receptor-Mediated Dye Uptake in Mast Cells and Macrophages? *Front Cell Neurosci* 14, 548376, [10.3389/fncel.2020.548376](https://doi.org/10.3389/fncel.2020.548376)
25. Semenov AN, Lugovtsov AE, Shirshin EA, Yakimov BP, Ermolinskiy PB, Bikmulina PY, **Kudryavtsev DS**, Timashev PS, Muravyov AV, Wagner C, Shin S, Priezzhev AV (2020). Assessment of Fibrinogen Macromolecules Interaction with Red Blood Cells Membrane by Means of Laser Aggregometry, Flow Cytometry, and Optical Tweezers Combined with Microfluidics. *Biomolecules* 10 (10), 1–20, [10.3390/biom10101448](https://doi.org/10.3390/biom10101448)
26. (conference) 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 YuN, 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)
 30. Akimov MG, **Kudryavtsev DS**, Kryukova EV, Fomina-Ageeva EV, Zakharov SS, Gretskeya NM, Zinchenko GN, Serkov IV, Makhaeva GF, Boltneva NP, Kovaleva NV, Serebryakova OG, Lushchekina SV, Palikov VA, Palikova Y, Dyachenko IA, Kasheverov IE, Tsetlin VI, Bezuglov VV (2020). Arachidonoylcholine and Other Unsaturated Long-Chain Acylcholines Are Endogenous Modulators of the Acetylcholine Signaling System. *Biomolecules* 10 (2), , [10.3390/biom10020283](https://doi.org/10.3390/biom10020283)
 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. **(conference)** 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**, Prokopev 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. **(conference)** 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)
 36. 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)
 37. **(conference)** 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 Part F140-CLEO_Europe 2019*, .
 38. Spirova EN, Ivanov IA, Kasheverov IE, **Kudryavtsev DS**, Shelukhina IV, Garifulina AI, Son LV, Lummis SCR, Malca-Garcia GR, Bussmann RW, Hennig L, Giannis A, Tsetlin VI (2019). Curare alkaloids from Matis Dart Poison: Comparison with d-tubocurarine in interactions with nicotinic, 5-HT₃ serotonin and GABAA receptors. *PLoS One* 14 (1), e0210182, [10.1371/journal.pone.0210182](https://doi.org/10.1371/journal.pone.0210182)
 39. Diankin ID, **Kudryavtsev DS**, Zalevsky AO, Tsetlin VI, Golovin AV (2018). New binding mode of SLURP protein to $\alpha 7$ nicotinic acetylcholine receptor revealed by computer simulations. *Supercomputing Frontiers and Innovations* 5 (4), 73–77, [10.14529/jsfi180407](https://doi.org/10.14529/jsfi180407)
 40. Yu J, Zhu X, Zhang L, **Kudryavtsev D**, Kasheverov I, Lei Y, Zhangsun D, Tsetlin V, Luo S (2018). Species specificity of rat and human $\alpha 7$ nicotinic acetylcholine receptors towards different classes of peptide and protein antagonists. *Neuropharmacology* 139, 226–237, [10.1016/j.neuropharm.2018.07.019](https://doi.org/10.1016/j.neuropharm.2018.07.019)
 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)
42. Durek T, Shelukhina IV, Tae HS, Thongyoo P, Spirova EN, **Kudryavtsev DS**, Kasheverov IE, Faure G, Corringier PJ, Craik DJ, Adams DJ, Tsetlin VI (2018). Interaction of Synthetic Human SLURP-1 with the Nicotinic Acetylcholine Receptors. *Sci Rep* 7 (1), 16606, [10.1038/s41598-017-16809-0](https://doi.org/10.1038/s41598-017-16809-0)
 43. 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 One* 12 (8), e0181936, [10.1371/journal.pone.0181936](https://doi.org/10.1371/journal.pone.0181936)
 44. Kasheverov IE, Chugunov AO, **Kudryavtsev DS**, Ivanov IA, Zhmak MN, Shelukhina IV, Spirova EN, Tabakmakher VM, Zelepuga EA, Efremov RG, Tsetlin VI (2016). High-Affinity α -Conotoxin PnIA Analogs Designed on the Basis of the Protein Surface Topography Method. *Sci Rep* 6, 36848, [10.1038/srep36848](https://doi.org/10.1038/srep36848)
 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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 47. Lyukmanova EN, Shulepko MA, **Kudryavtsev D**, Bychkov ML, Kulbatskii DS, Kasheverov IE, Astapova MV, Feofanov AV, Thomsen MS, Mikkelsen JD, Shenkarev ZO, Tsetlin VI, Dolgikh DA, Kirpichnikov MP (2016). Human secreted Ly-6/uPAR related protein-1 (SLURP-1) is a selective allosteric antagonist of $\alpha 7$ nicotinic acetylcholine receptor. *PLoS One* 11 (2), e0149733, [10.1371/journal.pone.0149733](https://doi.org/10.1371/journal.pone.0149733)
 48. Manetti D, Bellucci C, Dei S, Teodori E, Varani K, Spirova E, **Kudryavtsev D**, Shelukhina I, Tsetlin V, Romanelli MN (2016). New quinoline derivatives as nicotinic receptor modulators. *Eur J Med Chem* 110, 246–258, [10.1016/j.ejmech.2016.01.025](https://doi.org/10.1016/j.ejmech.2016.01.025)
 49. Malca Garcia GR, Hennig L, Shelukhina IV, **Kudryavtsev DS**, Bussmann RW, Tsetlin VI, Giannis A (2015). Curare Alkaloids: Constituents of a Matis Dart Poison. *J. Nat. Prod.* 78 (11), 2537–2544, [10.1021/acs.jnatprod.5b00457](https://doi.org/10.1021/acs.jnatprod.5b00457)
 50. **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)
 51. Utkin YN, Kasheverov IE, **Kudryavtsev DS**, Andreeva TV, Starkov VG, Ziganshin RH, Kuznetsov DV, Anh HN, Thao NTT, Khoa NC, Tsetlin VI (2015). Nonconventional three-finger toxin BMLCL from krait Bungarus multicinctus venom with high affinity interacts with nicotinic acetylcholine receptors. *Dokl Biochem Biophys* 464 (1), 294–297, [10.1134/S1607672915050099](https://doi.org/10.1134/S1607672915050099)
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