Резюме: Козлов Сергей Александрович

Адрес

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

Контакты

serg@ibch.ru
+7(495)3364022
https://www.ibch.ru/users/150

Работа в ИБХ

2017–наст.вр.	Главный научный сотрудник

Членство в советах и комиссиях ИБХ

Ученый совет

Степени и звания

Доктор наук (Химические науки, 02.00.10 — Биоорганическая химия)

Гранты и проекты

2014–2016	Молекулярные технологии управления нейросигнализацией
2020–2022	ЕАПИ: Структура и функция рибосом-инактивирующих белков в разработке рекомбинантных токсинов нового поколения
2017–2019	Доклинические исследования анальгетического лекарственного средства на основе ингибитора кислото-чувствительных каналов
2018–2020	Изучение фармакологических свойств эндогенных и экзогенных модуляторов кислоточувствительных ионных каналов на экспрессированных рецепторах и на животных моделях in vivo

Публикации

1. Osmakov DI, Onoprienko LV, Kalinovskii AP, Koshelev SG, Stepanenko VN, Andreev YA, **Kozlov SA** (2024). Opioid Analgesic as a Positive Allosteric Modulator of Acid-Sensing Ion Channels. *Int J Mol Sci* 25 (3), 1413, 10.3390/ijms25031413
2. Osmakov DI, Tarasova NV, Nedorubov AA, Palikov VA, Palikova YA, Dyachenko IA, Andreev YA, **Kozlov SA** (2023). Nocistatin and Products of Its Proteolysis Are Dual Modulators of Type 3 Acid-Sensing Ion Channels (ASIC3) with Algesic and Analgesic Properties. *Biochemistry (Mosc)* 88 (12-13), 2137–2145, 10.1134/S0006297923120155
3. Wu J, Xiong W, Li J, Liao H, Chai J, Huang X, Lai S, **Kozlov S**, Chu X, Xu X (2023). Peptide TK-HR from the Skin of Chinese Folk Medicine Frog Hoplobatrachus Rugulosus Accelerates Wound Healing via the Activation of the Neurokinin-1 Receptor. *J Med Chem* 66 (23), 16002–16017, 10.1021/acs.jmedchem.3c01434
4. Korolkova Y, Mikov A, Lobas A, Solovyeva E, Surin A, Andreev Y, Gorshkov M, **Kozlov S** (2023). Venom-gland transcriptomics and venom proteomics of the Tibellus oblongus spider. *Sci Data* 10 (1), 820, 10.1038/s41597-023-02703-0
5. Tsetlin V, Shelukhina I, **Kozlov S**, Kasheverov I (2023). Fifty Years of Animal Toxin Research at the Shemyakin–Ovchinnikov Institute of Bioorganic Chemistry RAS. *Int J Mol Sci* 24 (18), 13884,

10.3390/ijms241813884

6. 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
7. Danilevich VN, **Kozlov SA**, Sorokin VV, Mulyukin AL (2023). Highly purified DNA-containing cell envelopes from fungi for direct use in PCR. *Anal Chim Acta* 1273, 341528, 10.1016/j.aca.2023.341528
8. Gladkikh IN, Klimovich AA, Kalina RS, Kozhevnikova YV, Khasanov TA, Osmakov DI, Koshelev SG, Monastyrnaya MM, Andreev YA, Leychenko EV, **Kozlov SA** (2023). Anxiolytic, Analgesic and Anti-Inflammatory Effects of Peptides Hmg 1b-2 and Hmg 1b-4 from the Sea Anemone Heteractis magnifica. *Toxins (Basel)* 15 (5), 341, 10.3390/toxins15050341
9. Khudina OG, Burgart YV, Malkova NA, Shchegolkov EV, Krasnykh OP, Triandafilova GA, Malysheva KO, Solodnikov SY, Dubodel ES, Korolkova YV, **Kozlov SA**, Borisevich SS, Mozhaitsev ES, Saloutin V (2023). 5-Alkoxy-1-aryl-3-polyfluoroalkylpyrazoles with Antinociceptive Activity: Partial Agonists of TRPV1 Ion Channels. *ChemMedChem* 18 (12), e202300063, 10.1002/cmdc.202300063
10. Pislyagin EA, Menchinskaya ES, Gladkikh IN, Kvetkina AN, Sintsova OV, Popkova DV, Kozlovskiy SA, Gorpenchenko TY, Likhatskaya GN, Kaluzhskiy LA, Ivanov AS, Andreev YA, **Kozlov SA**, Dmitrenok PS, Aminin DL, Leychenko EV (2023). Recombinant Analogs of Sea Anemone Kunitz-Type Peptides Influence P2X7 Receptor Activity in Neuro-2a Cells. *Mar Drugs* 21 (3), , 10.3390/md21030192
11. Burgart YV, Elkina NA, Shchegolkov EV, Krasnykh OP, Makhaeva GF, Triandafilova GA, Solodnikov SY, Boltneva NP, Rudakova EV, Kovaleva NV, Serebryakova OG, Ulitko MV, Borisevich SS, Gerasimova NA, Evstigneeva NP, **Kozlov SA**, Korolkova YV, Minin AS, Belousova AV, Mozhaitsev ES, Klabukov AM, Saloutin VI (2023). Powerful Potential of Polyfluoroalkyl-Containing 4-Arylhydrazinylidenepyrazol-3-ones for Pharmaceuticals. *Molecules* 28 (1), 59, 10.3390/molecules28010059
12. Kalina RS, Gladkikh IN, Klimovich AA, Kozhevnikova YV, Kvetkina AN, Rogozhin EA, Koshelev SG, **Kozlov SA**, Leychenko EV (2022). First Anti-Inflammatory Peptide AnmTX Sco 9a-1 from the Swimming Sea Anemone Stomphia coccinea. *Biomolecules* 12 (11), , 10.3390/biom12111705
13. Tereshin MN, Komyakova AM, Stepanenko VN, Myagkikh IV, Shoshina NS, Korolkova YV, Leychenko EV, **Kozlov SA** (2022). Optimized method for the recombinant production of a sea anemone's peptide. *MENDELEEV COMMUN* 32 (6), 745–746, 10.1016/j.mencom.2022.11.012
14. Kalina RS, Kasheverov IE, Koshelev SG, Sintsova OV, Peigneur S, Pinheiro-Junior EL, Popov RS, Chausova VE, Monastyrnaya MM, Dmitrenok PS, Isaeva MP, Tytgat J, **Kozlov SA**, Kozlovskaya EP, Leychenko EV, Gladkikh IN (2022). Nicotinic Acetylcholine Receptors Are Novel Targets of APETx-like Toxins from the Sea Anemone Heteractis magnifica. *Toxins (Basel)* 14 (10), , 10.3390/toxins14100697
15. Osmakov DI, Kalinovskii AP, Belozerova OA, Andreev YA, **Kozlov SA** (2022). Lignans as Pharmacological Agents in Disorders Related to Oxidative Stress and Inflammation: Chemical Synthesis Approaches and Biological Activities. *Int J Mol Sci* 23 (11), , 10.3390/ijms23116031
16. Khokhlova ON, Borozdina NA, Sadovnikova ES, Pakhomova IA, Rudenko PA, Korolkova YV, **Kozlov SA**, Dyachenko IA (2022). Comparative Study of the Aftereffect of CO2 Inhalation or Tiletamine–Zolazepam–Xylazine Anesthesia on Laboratory Outbred Rats and Mice. *Biomedicines* 10 (2), , 10.3390/biomedicines10020512
17. Kalinovskii AP, Osmakov DI, Koshelev SG, Lubova KI, Korolkova YV, **Kozlov SA**, Andreev YA (2022). Retinoic Acid-Differentiated Neuroblastoma SH-SY5Y Is an Accessible In Vitro Model to Study Native Human Acid-Sensing Ion Channels 1a (ASIC1a). *Biology (Basel)* 11 (2), , 10.3390/biology11020167
18.