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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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Работа в ИБХ

2026–наст.вр.	Заведующий лабораторией	
2017–наст.вр.	Главный научный сотрудник	

Членство в советах и комиссиях ИБХ

	Диссертационный совет
	Ученый совет

Награды

2014	Премия имени Л.С. Лахири	За заслуги в исследованиях природных ядов и токсинов

Научные интересы

Научные интересы Ю.Н.Уткина лежат в области исследования ядов животных, включая поиск в ядах, выделение и изучение биологической активности белков с новыми фармакологическими свойствами. Основное направление исследований – полипептидные соединения, взаимодействующие с Cys-петельными рецепторами.

Членство в сообществах

Член

международного общества токсинологии, европейского нейрохимического общества

Степени и звания

	Доктор наук (Химические науки, 02.00.10 — Биоорганическая химия)

Ссылки и контакты

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Гранты и проекты

2026–наст.вр.	Компоненты ядов змей и растений как фундаментальная основа противомикробных препаратов для борьбы с инфекционными болезнями

2024–наст.вр.	Пептидные и белковые соединения на основе структур змеиных токсинов как перспективные средства для коррекции патологий сердечно-сосудистой системы
2021–2023	Белки и пептиды из ядов змей, влияющие на сердечно-сосудистую систему – фундаментальная основа новых кардиопротекторных и гипотензивных препаратов.
2021–2022	Вьет: Соединения с антипротозойной активностью из ядов животных и растений Вьетнама и России
2018–2019	Дизинтегрины яда гадюк как модуляторы активности интегринов в процессах пролиферации опухолевых клеток и агрегации тромбоцитов
2019–2020	Применение наноматериалов для повышения терапевтического потенциала пептидов и белков животных ядов
2018–2019	Влияние блокаторов никотиновых холинорецепторов на развитие опухолей в условиях совместного применения с противовоспалительными средствами и антикомплементарным фактором яда кобры
2018–2020	Флуоресцентные наноконъюгаты пептидных и белковых нейротоксинов для идентификации никотиновых холинорецепторов

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2. Osipov AV, Tsetlin VI, **Utkin YN** (2026). Will Snake Venoms Help Overcome Antimicrobial Resistance? *Russ. J. Bioorganic Chem.* 52 (5), 118, 10.1134/S1068162026602417
3. Gondarenko E, Ivanov I, Arkhangelskaya P, Timakina A, Pavlov V, Dyachenko I, Starkov V, Kasheverov I, **Utkin Y**, Tsetlin V, Kudryavtsev D (2026). Antivenomic and Proteomic Assessment of Inter- and Intrapopulation Venom Variations in Nikolsky's Adder Vipera nikolskii: Comparison to Common Adder Vipera berus. *J Proteome Res* 25 (9), 4546–4562, 10.1021/acs.jproteome.6c00088
4. Severyukhina MS, Osipov AV, Ismailova AM, Shaykhutdinova ER, Dyachenko IA, Starkov VG, Ziganshin RH, Timofeev ND, Murashev AN, Tsetlin VI, **Utkin YN** (2026). Barietin, a snake venom vascular endothelial growth factor from puff adder Bitis arietans venom, increases the heart rate with minor effect on blood pressure in rats. *Toxicon* , 109275, 10.1016/j.toxicon.2026.109275
5. Sukhov D, Petrova T, Kruglova D, Kholoshenko I, Romanenko G, **Utkin Y**, Pantyushenko P, Trofimov D, Korotkiy V, Barsova E, Kirillova Y (2026). Development of Chimeric Ribonuclease A Inhibitor for Molecular Biology Applications: SUMO Fusion as an Engineering Strategy. *Curr Issues Mol Biol* 48 (6), 637, 10.3390/cimb48060637
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7. Gilfanova AA, **Utkin YN**, Tsetlin VI, Prokhorov KA (2026). Analysis of low molecular weight compounds interacting with nicotinic acetylcholine receptors by Raman spectroscopy. *Doklady Physics* 528, 13–24, 10.7868/S3034508126030027
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Relevance. *EC Pharmacol Toxicol* 14 (3), 01–17, 10.31080/ECPT.2026.14.00955
10. Vladykina MV, Kokaeva IS, Kasheverov IE, Gretskaya NM, Zinchenko GN, Tsetlin VI, **Utkin YN**, Bezuglov VV, Shelukhina IV (2026). Novel Nicotinic Acetylcholine Receptor Inhibitors Derived from Oleoylcholine Analogs. *Acta Naturae* 18 (1), 36–45, 10.32607/actanaturae.27696
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12. Mozhaeva VA, Vassilevski AA, Starkov VG, Kudryavtsev DS, Prokhorov KA, Garnov SV, **Utkin YN** (2025). Identification of animal venoms by Raman spectroscopy combined with principal component analysis. *Microchem J* 219, , 10.1016/j.microc.2025.115966
13. Kini RM, **Utkin YN** (2025). The Need for and Importance of Thorough and Comprehensive Studies on the Molecular Mechanisms of Action of Animal Toxins, Venoms, and Antivenoms. *Int J Mol Sci* 26 (22), 11007, 10.3390/ijms262211007
14. Sukhov DA, Ojomoko LO, Shelukhina IV, Vladykina MV, Kost VY, Ziganshin RK, Geraskina OV, Balandin SV, Ovchinnikova TV, Tsetlin VI, **Utkin YN** (2025). Three-Finger Viper Toxins: cDNA Cloning and Expression in E. coli Using a Chimeric (Hybrid) Construction with a SUMO Fusion Partner Protein. *Russ. J. Bioorganic Chem.* 51 (5), 2064–2076, 10.1134/S1068162025602526
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28. Osipov AV, Kryukova EV, Ojomoko LO, Shelukhina IV, Ziganshin RH, Starkov VG, Andreeva TV, Tsetlin VI, **Utkin YN** (2024). A New Protein Glosaxin Composed of Noncatalytic Domains of Class PIII Metalloproteinase from the Pit Viper Gloydius saxatilis Venom Inhibits Nicotinic Acetylcholine Receptor. *Russ. J. Bioorganic Chem.* 50 (3), 706–714, 10.1134/S106816202403004X
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38. Kini RM, **Utkin YN** (2023). Molecular Mechanisms of Animal Toxins, Venoms and Antivenoms. *Int J Mol Sci* 24 (22), 16389, 10.3390/ijms242216389
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Rats under General Anesthesia. *Dokl Biochem Biophys* 513 (1), 319–323, 10.1134/S1607672923700497
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45. Shelukhina I, Siniavin A, Kasheverov I, Ojomoko L, Tsetlin V, **Utkin Y** (2023). α7- and α9-Containing Nicotinic Acetylcholine Receptors in the Functioning of Immune System and in Pain. *Int J Mol Sci* 24 (7), 6524, 10.3390/ijms24076524
46. Osipov AV, **Utkin YN** (2023). What Are the Neurotoxins in Hemotoxic Snake Venoms?*Int J Mol Sci* 24 (3), 2919, 10.3390/ijms24032919
47. Osipov AV, Averin AS, Shaykhutdinova ER, Dyachenko IA, Tsetlin VI, **Utkin YN** (2023). Muscarinic and Nicotinic Acetylcholine Receptors in the Regulation of the Cardiovascular System. *Russ. J. Bioorganic Chem.* 49 (1), 1–18, 10.1134/S1068162023010211
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