Резюме: Дубовский Пётр Викторович

Адрес

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

Контакты

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Образование

1994–1995	Япония, Кобэ	Университет Кобэ	стажировка
1987–1989	СССР, Москва	Институт Тонкой Химической Технологии им. Ломоносова М.В.	кандидат химических наук
1979–1984	СССР, Москва	МИФИ	диплом с отличием

Работа в ИБХ

2018–наст.вр.	Старший научный сотрудник	
	Научный сотрудник	

Навыки

Владею методиками оптической (ИК-, КД-, флуоресцентная спектроскопия), радиоспектроскопии (ЯМР, ЭПР) и вычислительными методами (Молекулярная Динамика и др.) для изучения структуры мембраноактивных полипептидов, а также их взаимодействия с липидными и биомембранами. Владею навыками программирования на языке Python.

Владение языками

русский (родной), английский (уверенный пользователь), японский (разговорный)

Научные интересы

Мембраноактивные полипептиды: структура и взаимодействие с липидными и биомембранами.

Членство в сообществах

Член Биохимического общества СССР (затем России).

Степени и звания

2026	Доктор наук (Химические науки, 1.4.9 - Биоорганическая химия)
	Кандидат наук (Химические науки, 02.00.10 — Биоорганическая химия)

Гранты и проекты

2024–2025	Дизайн антимикробных пептидов на основе мембраноактивных токсинов яда животных против метициллинрезистентного золотистого стафилококка

Публикации

1. Mironov PA, Baranova AA, Alferova VA, Nolde DE, Shenkarev ZO, **Dubovskii PV** (2026). Activity Determinants in Linear Spider Venom Peptide Fragments Against MRSA. *Russ. J. Bioorganic Chem.* 52 (5), 122, 10.1134/S1068162026601874
2. Mironov PA, Baranova AA, Alferova VA, Egorova NS, Ignatova AA, Feofanov AV, Shenkarev ZO, **Dubovskii PV** (2025). NMR Unveils Activity Mechanism of Linear Spider Venom Peptide Fragments Selected by Neural Networks Against Staphylococci Including MRSA. *Pharmaceutics* 17 (12), 1526, 10.3390/pharmaceutics17121526
3. **Dubovskii PV**, Utkin YN (2024). Specific Amino Acid Residues in the Three Loops of Snake Cytotoxins Determine Their Membrane Activity and Provide a Rationale for a New Classification of These Toxins. *Toxins (Basel)* 16 (6), 262, 10.3390/toxins16060262
4. Dubova M, **Dubovskii V**, Utkin N, Samygina R (2024). Effect of Microgravity on the Crystallization of Cardiotoxin from the Venom of Spectacled Cobra Naja naja. *Cryst. Rep* 68 (6), 900–904, 10.1134/S1063774523601144
5. Дубова КМ, **Дубовский ПВ**, Уткин ЮН, Самыгина ВР (2023). ВЛИЯНИЕ МИКРОГРАВИТАЦИИ НА КРИСТАЛЛИЗАЦИЮ КАРДИОТОКСИНА ИЗ ЯДА ОЧКОВОЙ КОБРЫ Naja naja. *Кристаллография* 68 (6), 902–906, 10.31857/S0023476123600465
6. **Dubovskii PV**, Ignatova AA, Alekseeva AS, Starkov VG, Boldyrev IA, Feofanov AV, Utkin YN (2023). Membrane-Disrupting Activity of Cobra Cytotoxins Is Determined by Configuration of the N-Terminal Loop. *Toxins (Basel)* 15 (1), 6, 10.3390/toxins15010006
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8. Dubinnyi MA, **Dubovskii PV**, Starkov VG, Utkin YN (2021). Corrigendum to “The omega-loop of cobra cytotoxins tolerates multiple amino acid substitutions” [Biochem. Biophys. Res. Commun. 558 (2021) 141–146]. *Biochem Biophys Res Commun* 579, 188, 10.1016/j.bbrc.2021.09.077
9. Dubinnyi A, **Dubovskii V**, Starkov G, Utkin N (2021). The omega-loop of cobra cytotoxins tolerates multiple amino acid substitutions. *Biochem Biophys Res Commun* 558, 141–146, 10.1016/j.bbrc.2021.04.069
10. Konshina AG, **Dubovskii PV**, Efremov RG (2021). Stepwise Insertion of Cobra Cardiotoxin CT2 into a Lipid Bilayer Occurs as an Interplay of Protein and Membrane “Dynamic Molecular Portraits”. *J Chem Inf Model* 61 (1), 385–399, 10.1021/acs.jcim.0c01137
11. **Dubovskii PV**, Ignatova AA, Feofanov AV, Utkin YN, Efremov RG (2020). Antibacterial activity of cardiotoxin-like basic polypeptide from cobra venom. *Bioorg Med Chem Lett* 30 (3), 126890, 10.1016/j.bmcl.2019.126890
12. **Dubovskii PV**, Efremov RG (2018). The role of hydrophobic /hydrophilic balance in the activity of structurally flexible vs rigid cytolytic polypeptides and analogues developed on their basis. *Expert Rev Proteomics* 15 (11), 873–886, 10.1080/14789450.2018.1537786
13. **Dubovskii PV**, Ignatova AA, Volynsky PE, Ivanov IA, Zhmak MN, Feofanov AV, Efremov RG (2018). Improving therapeutic potential of antibacterial spider venom peptides: coarse-grain molecular dynamics guided approach. *Future Med Chem* 10 (19), 2309–2322, 10.4155/fmc-2018-0170
14. **Dubovskii PV**, Dubinnyi MA, Volynsky PE, Pustovalova YE, Konshina AG, Utkin YN, Arseniev AS, Efremov RG (2017). Impact of membrane partitioning on the spatial structure of an S-type cobra cytotoxin. *J Biomol Struct Dyn* 36 (13), 1–16, 10.1080/07391102.2017.1389662
15. Thien TV, Anh HN, Trang NTT, Trung PV, Khoa NC, Osipov AV, **Dubovskii PV**, Ivanov IA, Arseniev AS, Tsetlin VI, Utkin YN (2017). Low-molecular-weight compounds with anticoagulant activity from the

scorpion Heterometrus laoticus venom. *Dokl Biochem Biophys* 476 (1), 316–319, 10.1134/S1607672917050052
16. **Dubovskii PV**, Dubinnyi MA, Konshina AG, Kazakova ED, Sorokoumova GM, Ilyasova TM, Shulepko MA, Chertkova RV, Lyukmanova EN, Dolgikh DA, Arseniev AS, Efremov RG (2017). Structural and Dynamic Portraits of Recombinant and Native Cytotoxin I from Naja oxiana: How Close Are They? *Biochemistry* 56 (34), 4468–4477, 10.1021/acs.biochem.7b00453
17. Thien TV, Anh HN, Trang NTT, Trung PV, Khoa NC, Osipov AV, **Dubovskii PV**, Ivanov A, Arseniev S, Tsetlin I, Utkin YN (2017). Low-Molecular Compounds with Anticoagulant Activity from Scorpion Heterometrus loaticus Venom. *Dokl Biochem Biophys* 476 (4), 476–479, 10.7868/S086956521728026X
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22. **Дубовский ПВ**, Уткин ЮН (2014). Цитотоксины кобр: структурная организация и антибактериальная активность. *Acta Naturae* 6 (3), 12–19.
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