

## Резюме: Ямпольский Илья Викторович



### Адрес

Федеральное государственное  
бюджетное учреждение науки  
Институт биорганической химии им.  
академиков М.М. Шемякина и Ю.А.  
Овчинникова Российской академии  
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### Контакты

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## Работа в ИБХ

	Заведующий отделом
2018–наст.вр.	Главный научный сотрудник
2021–наст.вр.	Заместитель директора по науке

## Членство в советах и комиссиях ИБХ

Методическая комиссия
Аттестационная комиссия
Диссертационный совет

## Научные интересы

Области научных интересов: Медицинская химия, полный синтез, биолюминесценция, люминесцентные и флуорогенные красители, установление механизмов биосинтеза.

Также И. В. Ямпольский посвящает много времени преподаванию химии для школьников и студентов, специализирующихся в области биологии, являясь автором около десятка оригинальных лекционных курсов.

## Степени и звания

Доктор наук (Химические науки, 02.00.10 — Биоорганическая химия)

## Гранты и проекты

2022– наст.вр.	<a href="#">Оптимизация биолюминесцентной системы грибов для прикладных биоаналитических и биоимиджинговых технологий</a>
2020– 2022	<a href="#">Чех: Разработка панели люминесцентных репортеров для изучения растительных гормонов in vivo на основе генетически кодируемой люминесценции</a>
2016– 2021	<a href="#">Создание первой в мире генетически кодируемой системы автономной биолюминесценции эукариот</a>
2018– 2021	<a href="#">Поиск ферментов биосинтеза и инженерия метаболического пути гиспидина - биосинтетического предшественника люциферина грибов - в микроорганизмах</a>
2018– 2020	<a href="#">Изучение структурно-функциональной организации гиспидин-3-гидроксилазы</a>

## Публикации

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2. Terekhov SS, Shmygarev VI, Purtov KV, Smirnov IV, **Yampolsky IV**, Tsarkova AS (2022). Drug design strategies for the treatment of coronavirus infection. *Bulletin of Russian State Medical University* 6, 126–128, [10.24075/brsmu.2022.067](https://doi.org/10.24075/brsmu.2022.067)
3. Shmygarev VI, Prokopenko YA, Terekhov SS, Zakharova MY, Dubinnyi MA, Smirnov IV, **Yampolsky IV**, Tsarkova AS (2022). Amicoumacin-based prodrug development approach. *Bulletin of Russian State Medical University* 6 (2022), 99–105, [10.24075/brsmu.2022.073](https://doi.org/10.24075/brsmu.2022.073)
4. Petushkov VN, Vavilov MV, Ivanov IA, Ziganshin RH, Rodionova NS, **Yampolsky IV**, Tsarkova AS, Dubinnyi MA (2022). Deazaflavin cofactor boosts earthworms *Henlea* bioluminescence. *Org Biomol Chem* , , [10.1039/D2OB01946A](https://doi.org/10.1039/D2OB01946A)
5. Shakhova ES, Markina NM, Mitiouchkina TY, Bugaeva EN, Karataeva TA, Palkina KA, Fakhranurova LI, **Yampolsky IV**, Sarkisyan KS, Mishin AS (2022). Systematic Comparison of Plant Promoters in *Nicotiana* spp. Expression Systems. *Int J Mol Sci* 23 (23), 15441, [10.3390/ijms232315441](https://doi.org/10.3390/ijms232315441)
6. Makarieva TN, Romanenko LA, Mineev KS, Shubina LK, Guglya EB, Kalinovskaya NI, Ivanchina NV, Guzii AG, Belozerova OA, Kovalchuk SI, Popov RS, Denisenko VA, Mikhailov VV, Babenko VV, Ilina EN, Malakhova MV, Terekhov SS, Kudzhaev AM, Dmitrenok PS, **Yampolsky IV**, Stonik VA (2022). Streptocinnamides A and B, Depsipeptides from *Streptomyces* sp. KMM 9044. *Org Lett* 24 (27), 4892–4895, [10.1021/acs.orglett.2c01714](https://doi.org/10.1021/acs.orglett.2c01714)
7. Gerasimov AS, Rogozhkin SO, Shakhova ES, Chepurnykh TV, Gorokhovatsky AY, Myshkina NM, Balakireva AV, **Yampolsky IV** (2021). Recombinant Production of Hispidin-3-Hydroxylase: the Key Enzyme in Fungal Luciferin Biosynthesis. *Russ. J. Bioorganic Chem.* 47 (5), 1066–1076, [10.1134/S1068162021040099](https://doi.org/10.1134/S1068162021040099)
8. Burakova LP, Lyakhovich MS, Mineev KS, Petushkov VN, Zagitova RI, Tsarkova AS, Kovalchuk SI, **Yampolsky IV**, Vysotski ES, Kaskova ZM (2021). Unexpected Coelenterazine Degradation Products of Photoprotein Photoinactivation. *Org Lett* 23 (17), 6846–6849, [10.1021/acs.orglett.1c02410](https://doi.org/10.1021/acs.orglett.1c02410)
9. Gorokhovatsky AY, Chepurnykh TV, Shcheglov AS, Mokrushina YA, Baranova MN, Goncharuk SA, Purtov KV, Petushkov VN, Rodionova NS, **Yampolsky IV** (2021). The Recombinant Luciferase of the Fungus *Neonothopanus nambi*: Obtaining and Properties. *Dokl Biochem Biophys* 496 (1), 52–55, [10.1134/S1607672921010051](https://doi.org/10.1134/S1607672921010051)
10. Beregovaya KA, Myshkina NM, Chepurnykh TV, Kotlobay AA, Purtov KV, Petushkov VN, Rodionova NS, **Yampolsky IV** (2021). Rational Design and Mutagenesis of Fungal Luciferase from *Neonothopanus nambi*. *Dokl Biochem Biophys* 496 (1), 14–17, [10.1134/S1607672921010026](https://doi.org/10.1134/S1607672921010026)
11. Mitiouchkina T, Mishin AS, Somermeyer LG, Markina NM, Chepurnykh TV, Guglya EB, Karataeva TA, Palkina KA, Shakhova ES, Fakhranurova LI, Chekova SV, Tsarkova AS, Golubev YV, Negrebetsky VV, Dolgushin SA, Shalaev PV, Shlykov D, Melnik OA, Shipunova VO, Deyev SM, Bubyrev AI, Pushin AS, Choob VV, Dolgov SV, Kondrashov FA, **Yampolsky IV**, Sarkisyan KS (2020). Author Correction: Plants with genetically encoded autoluminescence. *Nat Biotechnol* 38 (8), 1001, [10.1038/s41587-020-0578-0](https://doi.org/10.1038/s41587-020-0578-0)
12. Kotlobay AA, Kaskova ZM, **Yampolsky IV** (2020). Palette of Luciferases: Natural Biotools for New Applications in Biomedicine. *Acta Naturae* 12 (2), 15–27, [10.32607/actanaturae.10967](https://doi.org/10.32607/actanaturae.10967)
13. Mitiouchkina T, Mishin AS, Somermeyer LG, Markina NM, Chepurnykh TV, Guglya EB, Karataeva TA, Palkina KA, Shakhova ES, Fakhranurova LI, Chekova SV, Tsarkova AS, Golubev YV, Negrebetsky VV, Dolgushin SA, Shalaev PV, Shlykov D, Melnik OA, Shipunova VO, Deyev SM, Bubyrev AI, Pushin AS, Choob VV, Dolgov SV, Kondrashov FA, **Yampolsky IV**, Sarkisyan KS (2020). Plants with genetically encoded autoluminescence. *Nat Biotechnol* 38 (8), 944–946, [10.1038/s41587-020-0500-9](https://doi.org/10.1038/s41587-020-0500-9)
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15. Kotlobay AA, Kaskova ZM, **Yampolsky IV** (2020). Palette of luciferases: Natural biotools for new applications

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  20. Chen C, Zhu L, Baranov MS, Tang L, Baleeva NS, Smirnov AY, **Yampolsky IV**, Solntsev KM, Fang C (2019). Photoinduced Proton Transfer of GFP-Inspired Fluorescent Superphotoacids: Principles and Design. *J Phys Chem B* 123 (17), 3804–3821, [10.1021/acs.jpcc.9b03201](https://doi.org/10.1021/acs.jpcc.9b03201)
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- application in medical research. *Bulletin of Russian State Medical University* 7 (1), 80–83, [10.24075/brsmu.2018.004](https://doi.org/10.24075/brsmu.2018.004)
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