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## Образование

2007–2012	Москва	РХТУ им. Менделеева, ВХК РАН	Красный диплом
2005–2007	Москва	Московский Химический Лицей 1303	Золотая медаль

## Работа в ИБХ

2024–наст.вр.	Старший научный сотрудник
2019–2024	Старший научный сотрудник

## Владение языками

русский, английский

## Степени и звания

2016	Кандидат наук (Химические науки, 02.00.10 — Биоорганическая химия)
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## Гранты и проекты

2021– 2024	<a href="#">Установление интермедиатов биосинтетического пути люциферина полихет рода <i>Odontosyllis</i></a>
2018– 2020	<a href="#">Разработка методов синтеза аналогов люциферина высших грибов и изучение их фотохимических свойств</a>

## Публикации

1. Dobronos MA, **Osipova ZM**, Myshkina NM (2024). Potential of non-traditional cell cultures for production of biotherapeutic proteins. *Bulletin of Russian State Medical University* (3), 52–55, [10.24075/brsmu.2024.022](#)
2. Stevani CV, Zamuner CK, Bastos EL, Nóbrega BB, Soares DM, Oliveira AG, Bechara EJ, Shakhova ES, Sarkisyan KS, Yampolsky IV, **Kaskova ZM** (2024). The living light from fungi. *Journal of Photochemistry and Photobiology C: Photochemistry Reviews* 58, , [10.1016/j.jphotochemrev.2024.100654](#)
3. Barykin AD, Chepurnykh TV, **Osipova ZM** (2024). Deep learning in modelling the protein–ligand interaction: new pathways in drug development. *Bulletin of Russian State Medical University* (1), 49–53, [10.24075/brsmu.2024.002](#)
4. Makhin AP, Miturich VS, Vavilov MV, Lyakhovich MS, Andrianova AA, Zagitova RI, Shmygarev VI, Fadeeva AA, Yatskin ON, Belozerova OA, Tsatsakis A, Yampolsky IV, **Kaskova ZM** (2024). Improved synthesis of two quisqualic acid analogs containing hydantoin and imidazolidinone moieties. *Chem Heterocycl Compd (N Y)* , , [10.1007/s10593-024-03331-1](#)
5. Kotlobay AA, Dubinnyi MA, Kovalchuk SI, Makhin AP, Miturich VS, Lyakhovich MS, Fontaine DM, Southworth TL, Shmygarev VI, Yatskin ON, Branchini BR, Yampolsky IV, **Kaskova ZM** (2023). Structure elucidation of *Keroplatatus* (Diptera:Keroplataidae) fungus gnat oxyluciferin. *Biochem Biophys Res Commun* 676, 1–5,

[10.1016/j.bbrc.2023.07.035](https://doi.org/10.1016/j.bbrc.2023.07.035)

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7. Блохина АЕ, Палкина КА, Шахова ЕС, Малышевская АК, **Осипова ЗМ**, Мышкина НМ (2023). МЕТАБОЛИЧЕСКАЯ ИНЖЕНЕРИЯ — ПЕРСПЕКТИВНЫЙ ПУТЬ ПОЛУЧЕНИЯ ВЫСОКОЭФФЕКТИВНЫХ ПРОДУЦЕНТОВ БИОЛОГИЧЕСКИ АКТИВНЫХ ВЕЩЕСТВ. , , [10.24075/vrgmu.2023.014](https://doi.org/10.24075/vrgmu.2023.014)
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9. Blokhina AE, Palkina KA, Shakhova ES, Malyshevskaya AK, **Osipova ZM**, Myshkina NM (2023). Metabolic engineering is a promising way to generate highly effective producers of bioactive substances. *Bulletin of Russian State Medical University* 2023 (2), 53–55, [10.24075/brsmu.2023.014](https://doi.org/10.24075/brsmu.2023.014)
10. Kotlobay AA, Dubinnyi MA, Polevoi AV, Kovalchuk SI, **Kaskova ZM** (2022). Riboflavin as One of Possible Components of Keroplatus (Insecta: Diptera: Keroplatidae) Fungus Gnat Bioluminescence. *Russ. J. Bioorganic Chem.* 48 (6), 1215–1220, [10.1134/S1068162022060164](https://doi.org/10.1134/S1068162022060164)
11. Bolt YV, Baleeva NS, Nelyubina YV, Andrianova AA, **Kaskova ZM**, Tsarkova AS (2021). Novel Benzothiophene-Based Fluorescent Dye Exhibiting a Large Stokes Shift. *Synlett* 32 (20), 2059–2062, [10.1055/s-0040-1720925](https://doi.org/10.1055/s-0040-1720925)
12. 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)
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luciferin analogues from the bioluminescent earthworm *fridericia heliota*. *Chemistry* 21 (10), 3942–3947, [10.1002/chem.201406498](https://doi.org/10.1002/chem.201406498)

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