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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

2019–наст.вр.	Старший научный сотрудник
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### Владение языками

русский, английский

### Степени и звания

Кандидат наук (Химические науки, 02.00.10 — Биоорганическая химия)

### 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

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2. 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](https://doi.org/10.24075/brsmu.2024.002)
3. 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 *Keroplatus* (Diptera:Keroplastidae) 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. 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)
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  10. Dubinnyi MA, Ivanov IA, Rodionova NS, Kovalchuk SI, **Kaskova ZM**, Petushkov VN (2020).  $\alpha$ -C-Mannosyltryptophan is a Structural Analog of the Luciferin from Bioluminescent Siberian Earthworm *Henlea* sp. *ChemistrySelect* 5 (42), 1–5, [10.1002/slct.202003075](https://doi.org/10.1002/slct.202003075)
  11. 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)
  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.11152](https://doi.org/10.32607/ACTANATURAE.11152)
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  15. (книга) Shimomura O, Oba Y, Stevani CV, Tsarkova AS, **Kaskova ZM** (2019). Other luminous organisms. , 349–379.
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38. Karavanova YA, **KasKova ZM**, Veresov AG, Yaroslavl'tsev AB (2010). Diffusion properties of bilayer membranes based on MC-40 and MF-4SC modified with silicon and zirconium oxides. *RUSS J INORG CHEM+* 55 (4), 479–483, [10.1134/S0036023610040017](https://doi.org/10.1134/S0036023610040017)