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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 |
| 2026–2026 | Доцент |
| 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 | Установление интермедиатов биосинтетического пути люциферина полихет рода <i>Odontosyllis</i> |
| 2018– 2020 | Разработка методов синтеза аналогов люциферина высших грибов и изучение их фотохимических свойств |

Публикации

- Iuzabchuk DA, Andrianova AA, Yampolsky IV, **Kaskova ZM**, Smirnov IV (2026). Beyond Antiviral Therapy: Untapped Potential of HIV & HCV Protease Inhibitors. *Med Res Rev* , , [10.1002/med.70040](https://doi.org/10.1002/med.70040)
- Kuznetsova AA, Makhin AP, Bulygin AA, Andrianova AA, Miturich VS, Zagitova RI, Shmygarev VI, Fadeeva AA, Yatskin ON, Belozeroва OA, Smirnov IV, Yampolsky IV, **Kaskova ZM**, Kuznetsov NA (2026). Design and In Vitro Evaluation of Novel GC373-like SARS-CoV-2 Main Protease Inhibitors. *Curr Issues Mol Biol* 48 (2), , [10.3390/cimb48020142](https://doi.org/10.3390/cimb48020142)
- Zamuner CK, Soares DMM, Nóbrega BB, Bechara EJH, **Kaskova ZM**, Mishin AS, Sarkisyan KS, Yampolsky IV, Stevani CV (2026). Caffeoylpyruvate hydrolase from the bioluminescent fungus *Neonothopanus gardneri* is the key recycling enzyme in the fungal bioluminescence pathway. *FEBS J* , , [10.1111/febs.70554](https://doi.org/10.1111/febs.70554)
- Malyshevskaya AK, Barykin AD, Kisilichuk DA, Chepurnykh TV, Shakhova ES, Perfilov MM, Belozeroва OA, Palkina KA, Markina NM, Zamuner CK, Soares DMM, Zagitova RI, **Kaskova ZM**, Stevani CV, Gorokhovatsky AY, Mishin AS, Sarkisyan KS, Yampolsky IV (2026). Fungal oxyluciferin is recycled by caffeoylpyruvate hydrolases. *FEBS J* , , [10.1111/febs.70555](https://doi.org/10.1111/febs.70555)

5. Ayogu JI, Lyu M, Barykin AD, Fadeeva AA, **Kaskova ZM**, Anderson JC (2025). Chimeric fungal–firefly luciferins exhibit red shifted fungal bioluminescence. *Org Biomol Chem* 23 (44), 10186–10193, [10.1039/d5ob01589h](https://doi.org/10.1039/d5ob01589h)
6. Fadeeva AA, **Osipova ZM**, Chepurnykh TV, Myshkina NM (2025). Modern tumor imaging models for rodents: potential and prospects in translational medicine. *Bulletin of Russian State Medical University* (2), , [10.24075/brsmu.2025.015](https://doi.org/10.24075/brsmu.2025.015)
7. 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](https://doi.org/10.24075/brsmu.2024.022)
8. 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](https://doi.org/10.1016/j.jphotochemrev.2024.100654)
9. 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)
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12. Bolt YV, Dubinnyi MA, Litvinenko VV, Kotlobay AA, Belozero OA, Zagitova RI, Shmygarev VI, Yatskin ON, Guglya EB, Kublitski VS, Baranov MS, Yampolsky IV, **Kaskova ZM**, Tsarkova AS (2023). Total Synthesis of Racemic Thieno[3,2-f]thiochromene Tricarboxylate, a Luciferin from Marine Polychaeta *Odontosyllis undecimdonata*. *Org Lett* 25 (26), 4892–4897, [10.1021/acs.orglett.3c01696](https://doi.org/10.1021/acs.orglett.3c01696)
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 33. **Осипова ЗМ**, Щеглов АС, Ямпольский ИВ (2018). Новая биолюминесцентная система грибов: перспективы использования в медицинских исследованиях. (1), 80–83, [10.24075/vrgmu.2018.004](https://doi.org/10.24075/vrgmu.2018.004)
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