

Резюме: Лукьянов Константин Анатольевич



Адрес

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

Контакты

kluk@ibch.ru
<https://www.ibch.ru/ru/users/284>

Образование

1986–1991	Москва, Россия	Биологический факультет МГУ
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Работа в ИБХ

2024–наст.вр.	Ведущий научный сотрудник
2020–2024	Главный научный сотрудник
2020–2024	Главный научный сотрудник
2018–2024	Главный научный сотрудник

Членство в советах и комиссиях ИБХ

Методическая комиссия
Ученый совет
Аттестационная комиссия

Степени и звания

	Член-корреспондент РАН
2016	Профессор РАН
	Доктор наук (Биологические науки, 03.00.03 — Молекулярная биология)

Гранты и проекты

2019–	Выявление конформационно-подвижных участков потенциал-чувствительного белка
2021	млекопитающих претина с помощью направленных инсерций флуоресцентного белка

Публикации

- Stepanov AI, Zhurlova PA, Shuvaeva AA, Sokolinskaya EL, Gurskaya NG, **Lukyanov KA**, Putlyaeva LV (2023). Optogenetics for sensors: On-demand fluorescent labeling of histone epigenetics. *Biochem Biophys Res Commun* 687, 149174, [10.1016/j.bbrc.2023.149174](https://doi.org/10.1016/j.bbrc.2023.149174)
- Stepanov AI, Putlyaeva LV, Didych DA, Galiakberova AA, Gurskaya NG, **Lukyanov KA** (2023). ATOH1 factor expression induces rapid differentiation of iPSCs into neurons. *Bulletin of Russian State Medical University* 2023 (5), 4–8, [10.24075/brsmu.2023.036](https://doi.org/10.24075/brsmu.2023.036)
- Mamontova AV, Simonyan TR, **Lukyanov KA**, Bogdanov AM (2022). Circular Permutants of BrUSLEE Protein as Fluorescent pH Indicators. *Russ. J. Bioorganic Chem.* 48 (4), 850–853,

4. **Lukyanov KA** (2022). Fluorescent proteins for a brighter science. *Biochem Biophys Res Commun* 633, 29–32, [10.1016/j.bbrc.2022.08.089](https://doi.org/10.1016/j.bbrc.2022.08.089)
5. Simonyan TR, Protasova EA, Mamontova AV, Shakhov AM, **Lukyanov KA**, Maksimov EG, Bogdanov AM (2022). A Single Fluorescent Protein-Based Indicator with a Time-Resolved Fluorescence Readout for Precise pH Measurements in the Alkaline Range. *Int J Mol Sci* 23 (21), , [10.3390/ijms232112907](https://doi.org/10.3390/ijms232112907)
6. Stepanov AI, Besedovskaia ZV, Moshareva MA, **Lukyanov KA**, Putlyaeva LV (2022). Studying Chromatin Epigenetics with Fluorescence Microscopy. *Int J Mol Sci* 23 (16), , [10.3390/ijms23168988](https://doi.org/10.3390/ijms23168988)
7. Moshareva MA, **Lukyanov KA**, Putlyaeva LV (2022). Fluorescence imaging of epigenetic genome modifications. *Biochem Biophys Res Commun* 622, 86–92, [10.1016/j.bbrc.2022.07.014](https://doi.org/10.1016/j.bbrc.2022.07.014)
8. Kost LA, Iunusova VA, Ivanova VO, Nikitin ES, **Lukyanov KA**, Bogdanov AM (2022). The Electromotive Protein Prestin as a Sensitive Core of the Fluorescent Voltage Indicator. *Russ. J. Bioorganic Chem.* 48 (3), 617–620, [10.1134/S1068162022030098](https://doi.org/10.1134/S1068162022030098)
9. Mamontov V, Martynov A, Morozova N, Bukatin A, Staroverov DB, **Lukyanov KA**, Ispolatov Y, Semenova E, Severinov K (2022). Persistence of plasmids targeted by CRISPR interference in bacterial populations. *Proc Natl Acad Sci U S A* 119 (15), e2114905119, [10.1073/pnas.2114905119](https://doi.org/10.1073/pnas.2114905119)
10. Kolesov DV, Sokolinskaya EL, **Lukyanov KA**, Bogdanov AM (2021). Molecular Tools for Targeted Control of Nerve Cell Electrical Activity. Part II. *Acta Naturae* 13 (4), 17–32, [10.32607/actanaturae.11415](https://doi.org/10.32607/actanaturae.11415)
11. Bozhanova NG, Harp JM, Bender BJ, Gavrikov AS, Gorbachev DA, Baranov MS, Mercado CB, Zhang X, **Lukyanov KA**, Mishin AS, Meiler J (2021). Computational redesign of a fluorogen activating protein with Rosetta. *PLoS Comput Biol* 17 (11), e1009555, [10.1371/journal.pcbi.1009555](https://doi.org/10.1371/journal.pcbi.1009555)
12. Perfilov MM, Gavrikov AS, **Lukyanov KA**, Mishin AS (2021). Transient fluorescence labeling: Low affinity—high benefits. *Int J Mol Sci* 22 (21), , [10.3390/ijms222111799](https://doi.org/10.3390/ijms222111799)
13. Yuzhakova DV, Shirmanova MV, Klimenko VV, Lukina MM, Gavrina AI, Komarova AD, Gorbachev DA, Sapogova NV, **Lukyanov KA**, Kamensky VA (2021). PDT with genetically encoded photosensitizer miniSOG on a tumor spheroid model: A comparative study of continuous-wave and pulsed irradiation. *BIOCHIM BIOPHYS ACTA* 1865 (12), 129978, [10.1016/j.bbagen.2021.129978](https://doi.org/10.1016/j.bbagen.2021.129978)
14. Kolesov DV, Sokolinskaya EL, **Lukyanov KA**, Bogdanov AM (2021). Molecular Tools for Targeted Control of Nerve Cell Electrical Activity. Part I. *Acta Naturae* 13 (3), 52–64, [10.32607/actanaturae.11414](https://doi.org/10.32607/actanaturae.11414)
15. Kolesov DV, Ivanova VO, Sokolinskaya EL, Kost LA, Balaban PM, **Lukyanov KA**, Nikitin ES, Bogdanov AM (2021). Impacts of OrX and cAMP-insensitive Orco to the insect olfactory heteromer activity. *Mol Biol Rep* 48 (5), 4549–4561, [10.1007/s11033-021-06480-0](https://doi.org/10.1007/s11033-021-06480-0)
16. Protasova EA, Mishin AS, **Lukyanov KA**, Maksimov EG, Bogdanov AM (2021). Chromophore reduction plus reversible photobleaching: how the mKate2 photoconversion works. *Photochem Photobiol Sci* 20 (6), 791–803, [10.1007/s43630-021-00060-8](https://doi.org/10.1007/s43630-021-00060-8)
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19. Mamontova AV, Shakhov AM, Grigoryev AP, **Lukyanov KA**, Bogdanov AM (2020). Increasing the Fluorescence Brightness of Superphotostable EGFP Mutant by Introducing Mutations That Block Chromophore Protonation. *Russ. J. Bioorganic Chem.* 46 (6), 1229–1241, [10.1134/S1068162020060187](https://doi.org/10.1134/S1068162020060187)
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