

## Резюме: Лукьянов Константин Анатольевич



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## Образование

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

2024–2024	Ведущий научный сотрудник
2020–2024	Главный научный сотрудник
2018–2024	Главный научный сотрудник
2020–2024	Главный научный сотрудник

## Членство в советах и комиссиях ИБХ

Методическая комиссия
Аттестационная комиссия

## Степени и звания

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

## Ссылки и контакты

ResearcherID: [D-4030-2013](#), ORCID: [0000-0001-9845-2088](#), Scopus: [7003777530](#)

## Гранты и проекты

2019–	<a href="#">Выявление конформационно-подвижных участков потенциал-чувствительного белка</a>
2021	<a href="#">млекопитающих претина с помощью направленных инсерций флуоресцентного белка</a>

## Публикации

- Stepanov AI, Zhigmitova EB, Dashinimaev EB, Galiakberova AA, Putlyaeva LV, **Lukyanov KA**, Gurskaya NG (2025). Visualization of H3K9me3 in Embryoid Bodies Using Genetically Encoded Fluorescent Sensor MPP8-Green. *Russ. J. Bioorganic Chem.* 51 (1), 229–234, [10.1134/S1068162025010236](#)
- Stepanov AI, Putlyaeva LV, Shuvaeva AA, Andrushkin MA, Baranov MS, Gurskaya NG, **Lukyanov KA** (2025). Live-Cell Visualization of Histone Modification Using Bimolecular Complementation. *Russ. J. Bioorganic Chem.* 51 (1), 320–329, [10.1134/S1068162025010261](#)
- Stepanov AI, Putlyaeva LV, Besedovskaya Z, Shuvaeva AA, Karpenko NV, Rukh S, Gorbachev DA,

- Malyshevskaia KK, Tersikh AV, **Lukyanov KA**, Gurskaya NG (2024). Genetically encoded epigenetic sensors for visualization of H3K9me3, H3K9ac and H3K4me1 histone modifications in living cells. *Biochem Biophys Res Commun* 733, 150715, [10.1016/j.bbrc.2024.150715](https://doi.org/10.1016/j.bbrc.2024.150715)
4. Stepanov AI, Shuvaeva AA, Putlyaeva LV, Lukyanov DK, Galiakberova AA, Gorbachev DA, Maltsev DI, Pronina V, Dylov DV, Tersikh AV, **Lukyanov KA**, Gurskaya NG (2024). Tracking induced pluripotent stem cell differentiation with a fluorescent genetically encoded epigenetic probe. *Cell Mol Life Sci* 81 (1), 381, [10.1007/s00018-024-05359-0](https://doi.org/10.1007/s00018-024-05359-0)
  5. Sokolinskaya EL, Ivanova ON, Fedyakina IT, Ivanov AV, **Lukyanov KA** (2024). Natural-Target-Mimicking Translocation-Based Fluorescent Sensor for Detection of SARS-CoV-2 PLpro Protease Activity and Virus Infection in Living Cells. *Int J Mol Sci* 25 (12), 6635, [10.3390/ijms25126635](https://doi.org/10.3390/ijms25126635)
  6. 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)
  7. 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)
  8. 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, [10.1134/S106816202204015X](https://doi.org/10.1134/S106816202204015X)
  9. **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)
  10. 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)
  11. 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)
  12. 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)
  13. 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)
  14. 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)
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  16. 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)
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  19. 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)
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34. Bogdanov AM, Mamontova AV, Titelmayer AV, **Lukyanov KA**, Mishin AS (2019). Artificial Electron-transport Chains Based on Green Fluorescent Protein. *Opt Spectrosc* 126 (1), 102–105, [10.1134/S0030400X19010041](https://doi.org/10.1134/S0030400X19010041)
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39. (конференция) Shirmanova MV, Lukina MM, Yuzhakova DV, Druzhkova IN, Gavrina AI, **Lukyanov KA**, Belousov VV, Zagaynova EV (2019). Functional imaging and treatment of tumors with new fluorescent

- proteins. *Optics InfoBase Conference Papers Part F163-OMP 2019*, , [10.1364/OMP.2019.OT1D.2](https://doi.org/10.1364/OMP.2019.OT1D.2)
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