

Резюме: Мартынов Владимир Иванович

Адрес

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

Контакты

<https://www.ibch.ru/users/38>

Образование

| | | | |
|-----------|----------------|--|---|
| 1970–2013 | Россия, Москва | Институт биоорганической химии им. академиков М.М. Шемякина и Ю.А. Овчинникова РАН (ИБХ РАН) | Присуждена учёная степень доктора химических наук, диссертация «Посттрансляционные модификации белков семейства GFP» |
| 1970–1983 | Россия, Москва | Институт биоорганической химии им. М.М. Шемякина АН СССР (ИБХ) | Присуждена учёная степень кандидата химических наук, диссертация «Исследование молекулярной организации зрительного родопсина » |
| 1970–1975 | Россия, Москва | Московский государственный университет им. М.В. Ломоносова (МГУ, химический факультет) | Диплом химика |

Работа в ИБХ

Заведующий лабораторией

Научные интересы

Основные научные интересы В.И. Мартынова связаны с исследованиями структуры и функции светочувствительных белков, а также возможностью их применения в молекулярной, клеточной биологии и в тераностике различных заболеваний.

Степени и звания

Доктор наук (Химические науки)

Гранты и проекты

| | |
|---------------|--|
| 2020–наст.вр. | Гибридные конструкции для нацеленной доставки синтетических фотосенсибилизаторов к раковым клеткам |
| 2018–2020 | Создание новых генетически кодируемых агентов для тераностики раковых заболеваний |

Публикации

- Goryashchenko AS, Pakhomov AA, Ryabova AV, Romanishkin ID, Maksimov EG, Orsa AN, Serova OV, Mozhaev AA, Maksimova MA, **Martynov VI**, Petrenko AG, Deyev IE (2021). FLIM-Based Intracellular and Extracellular pH Measurements Using Genetically Encoded pH Sensor. *Biosensors (Basel)* 11 (9), , [10.3390/bios11090340](https://doi.org/10.3390/bios11090340)
- Pakhomov AA, Pastukhova AA, Tishkin GV, **Martynov VI** (2021). Transformations of the Chromophore in the Course of Maturation of a Chromoprotein from *Actinia equina*. *Russ. J. Bioorganic Chem.* 47 (1), 230–235, [10.1134/S1068162021010167](https://doi.org/10.1134/S1068162021010167)
- Frolova AY, Pakhomov AA, **Martynov VI** (2021). Physicochemical Properties of Photoconvertible Fluorescent

Protein from *Montastraea cavernosa*. *Russ. J. Bioorganic Chem.* 47 (1), 244–251, [10.1134/S1068162021010052](https://doi.org/10.1134/S1068162021010052)

4. Pakhomov AA, Frolova AY, Tabakmakher VM, Chugunov AO, Efremov RG, **Martynov VI** (2020). Impact of external amino acids on fluorescent protein chromophore biosynthesis revealed by molecular dynamics and mutagenesis studies. *J Photochem Photobiol B* 206, 111853, [10.1016/j.jphotobiol.2020.111853](https://doi.org/10.1016/j.jphotobiol.2020.111853)
5. **Martynov VI**, Pakhomov AA, Deyev IE, Petrenko AG (2018). Genetically encoded fluorescent indicators for live cell pH imaging. *BIOCHIM BIOPHYS ACTA* 1862 (12), 2924–2939, [10.1016/j.bbagen.2018.09.013](https://doi.org/10.1016/j.bbagen.2018.09.013)
6. Pakhomov AA, **Martynov VI**, Orsa AN, Bondarenko AA, Chertkova RV, Lukyanov KA, Petrenko AG, Deyev IE (2017). Fluorescent protein Dendra2 as a ratiometric genetically encoded pH-sensor. *Biochem Biophys Res Commun* 493 (4), 1518–1521, [10.1016/j.bbrc.2017.09.170](https://doi.org/10.1016/j.bbrc.2017.09.170)
7. Pakhomov AA, Mironiuk VB, Kononevich YN, Korlyukov AA, Volodin AD, Pryakhina TA, **Martynov VI**, Muzafarov AM (2017). Synthesis and crystal structure of a meso-decene-BODIPY dye as a functional bright fluorophore for silicone matrices. *MENDELEEV COMMUN* 27 (4), 363–365, [10.1016/j.mencom.2017.07.014](https://doi.org/10.1016/j.mencom.2017.07.014)
8. Pakhomov AA, Chertkova RV, Deyev IE, Petrenko AG, **Martynov VI** (2017). Generation of photoactivatable fluorescent protein from photoconvertible ancestor. *Russ. J. Bioorganic Chem.* 43 (3), 340–343, [10.1134/S106816201703013X](https://doi.org/10.1134/S106816201703013X)
9. Pakhomov AA, Deyev IE, Ratnikova NM, Chumakov SP, Mironiuk VB, Kononevich YN, Muzafarov AM, **Martynov VI** (2017). BODIPY-based dye for no-wash live-cell staining and imaging. *Biotechniques* 63 (2), 77–79, [10.2144/000114577](https://doi.org/10.2144/000114577)
10. Pakhomov AA, Kononevich YN, Korlyukov AA, **Martynov VI**, Muzafarov AM (2016). Synthesis, crystal structure and optical properties of a new meso-acrylate BODIPY dye. *MENDELEEV COMMUN* 26 (3), 196–198, [10.1016/j.mencom.2016.04.005](https://doi.org/10.1016/j.mencom.2016.04.005)
11. Pakhomov AA, Kononevich YN, Stukalova MV, Svidchenko EA, Surin NM, Cherkaev GV, Shchegolikhina OI, **Martynov VI**, Muzafarov AM (2016). Synthesis and photophysical properties of a new BODIPY-based siloxane dye. *Tetrahedron Lett* 57 (9), 979–982, [10.1016/j.tetlet.2016.01.059](https://doi.org/10.1016/j.tetlet.2016.01.059)
12. Pletneva NV, Pletnev S, Pakhomov AA, Chertkova RV, **Martynov VI**, Muslinkina L, Dauter Z, Pletnev VZ (2016). Crystal structure of the fluorescent protein from *Dendronephthya* sp. in both green and photoconverted red forms. *Acta Crystallogr D Struct Biol* 72 (8), 922–932, [10.1107/S205979831601038X](https://doi.org/10.1107/S205979831601038X)
13. **Martynov VI**, Pakhomov AA, Popova NV, Deyev IE, Petrenko AG (2016). Synthetic Fluorophores for Visualizing Biomolecules in Living Systems. *Acta Naturae* 8 (4), 33–46, [10.32607/20758251-2016-8-4-33-46](https://doi.org/10.32607/20758251-2016-8-4-33-46)
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20. Pakhomov AA, **Martynov VI** (2011). Probing the structural determinants of yellow fluorescence of a protein from *Phialidium* sp. *Biochem Biophys Res Commun* 407 (1), 230–235, [10.1016/j.bbrc.2011.03.004](https://doi.org/10.1016/j.bbrc.2011.03.004)
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chromoprotein from *Anemonia sulcata*. *J Biol Chem* 276 (24), 21012–21016, [10.1074/jbc.M100500200](https://doi.org/10.1074/jbc.M100500200)

41. **Martynov VI**, Kostina MB, Feigina Mlu, Miroshnikov AI (1983). Limited proteolysis studies on molecular organization of bovine rhodopsin in the photoreceptor membrane. 9, 734–745.