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Контакты

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Работа в ИБХ

2022–наст.вр.	Старший научный сотрудник
2019–2022	Научный сотрудник
2018–2022	Научный сотрудник

Членство в сообществах

Член Совета молодых Ученых ИБХ РАН второго созыва с 2014 г. и третьего созыва с 2016 г.

Степени и звания

2016 Кандидат наук (Химические науки, 02.00.10 — Биоорганическая химия)

Гранты и проекты

2023– наст.вр.	Исследование сенсibilизационного потенциала и перекрёстной реактивности клинически значимых аллергенов класса PR-10 для разработки новых подходов проведения аллерген-специфической иммунотерапии
2023– наст.вр.	Исследование сенсibilизационного потенциала и перекрёстной реактивности клинически значимых аллергенов класса PR-10 для разработки новых подходов проведения аллерген-специфической иммунотерапии
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Публикации

- Finkina EI, Danilova YD, Melnikova DN, Ovchinnikova TV, **Bogdanov IV** (2025). Sensitization Potential of the Major Soybean Allergen Gly m 4 and Its Cross-Reactivity with the Birch Pollen Allergen Bet v 1. *Int J Mol Sci* 26 (7), , [10.3390/ijms26072932](#)
- Bolosov IA, Finkina EI, **Bogdanov IV**, Safronova VN, Panteleev PV, Ovchinnikova TV (2024). Natural Gomesin-like Peptides with More Selective Antifungal Activities. *Pharmaceutics* 16 (12), 1606, [10.3390/pharmaceutics16121606](#)
- Shevchenko OV, Voropaev AD, **Bogdanov IV**, Ovchinnikova TV, Finkina EI (2024). Effects of the Tobacco Defensin NaD1 Against Susceptible and Resistant Strains of *Candida albicans*. *Pathogens* 13 (12), 1092, [10.3390/pathogens13121092](#)
- Panteleev PV, Pichkur EB, Kruglikov RN, Paleskava A, Shulenina OV, Bolosov IA, **Bogdanov IV**, Safronova VN, Balandin SV, Marina VI, Kombarova TI, Korobova OV, Shamova OV, Myasnikov AG, Borzilov AI, Osterman IA, Sergiev PV, Bogdanov AA, Dontsova OA, Konevega AL, Ovchinnikova TV (2024). Rumicidins are a family of mammalian host-defense peptides plugging the 70S ribosome exit tunnel. *Nat Commun* 15 (1),

8925, [10.1038/s41467-024-53309-y](https://doi.org/10.1038/s41467-024-53309-y)

5. Finkina EI, **Bogdanov IV**, Shevchenko OV, Fateeva SI, Ignatova AA, Balandin SV, Ovchinnikova TV (2024). Immunomodulatory Effects of the Tobacco Defensin NaD1. *Antibiotics (Basel)* 13 (11), 1101, [10.3390/antibiotics13111101](https://doi.org/10.3390/antibiotics13111101)
6. Antoshina DV, Balandin SV, Finkina EI, **Bogdanov IV**, Eremchuk SI, Kononova DV, Kovrizhnykh AA, Ovchinnikova TV (2024). Acidocin A and Acidocin 8912 Belong to a Distinct Subfamily of Class II Bacteriocins with a Broad Spectrum of Antimicrobial Activity. *Int J Mol Sci* 25 (18), 10059, [10.3390/ijms251810059](https://doi.org/10.3390/ijms251810059)
7. Melnikova DN, Finkina EI, Potapov AE, Danilova YD, Toropygin IY, Matveevskaya NS, Ovchinnikova TV, **Bogdanov IV** (2024). Structural and Immunological Features of PR-10 Allergens: Focusing on the Major Alder Pollen Allergen Aln g 1. *Int J Mol Sci* 25 (9), 4965, [10.3390/ijms25094965](https://doi.org/10.3390/ijms25094965)
8. Melnikova DN, **Bogdanov IV**, Potapov AE, Alekseeva AS, Finkina EI, Ovchinnikova TV (2023). Molecular Insight into Ligand Binding and Transport by the Lentil Lipid Transfer Protein Lc-LTP2: The Role of Basic Amino Acid Residues at Opposite Entrances to the Hydrophobic Cavity. *Biomolecules* 13 (12), 1699, [10.3390/biom13121699](https://doi.org/10.3390/biom13121699)
9. **Bogdanov IV**, Streltsova MA, Kovalenko EI, Sapozhnikov AM, Panteleev PV, Ovchinnikova TV (2023). Epithelial-Immune Cell Crosstalk Determines the Activation of Immune Cells In Vitro by the Human Cathelicidin LL-37 at Low Physiological Concentrations. *Biomolecules* 13 (9), 1316, [10.3390/biom13091316](https://doi.org/10.3390/biom13091316)
10. **Bogdanov IV**, Fateeva SI, Voropaev AD, Ovchinnikova TV, Finkina EI (2023). Immunomodulatory Effects of the Pea Defensin Psd1 in the Caco-2/Immune Cells Co-Culture upon Candida albicans Infection. *Int J Mol Sci* 24 (9), , [10.3390/ijms24097712](https://doi.org/10.3390/ijms24097712)
11. Melnikova DN, Finkina EI, **Bogdanov IV**, Tagaev AA, Ovchinnikova TV (2023). Features and Possible Applications of Plant Lipid-Binding and Transfer Proteins. *Membranes (Basel)* 13 (1), 2, [10.3390/membranes13010002](https://doi.org/10.3390/membranes13010002)
12. Antoshina DV, Balandin SV, **Bogdanov IV**, Vershinina MA, Sheremeteva EV, Toropygin IY, Finkina EI, Ovchinnikova TV (2022). Antimicrobial Activity and Immunomodulatory Properties of Acidocin A, the Pediocin-like Bacteriocin with the Non-Canonical Structure. *Membranes (Basel)* 12 (12), 1253, [10.3390/membranes12121253](https://doi.org/10.3390/membranes12121253)
13. Finkina EI, **Bogdanov IV**, Ziganshin RH, Strokach NN, Melnikova DN, Toropygin IY, Matveevskaya NS, Ovchinnikova TV (2022). Structural and Immunologic Properties of the Major Soybean Allergen Gly m 4 Causing Anaphylaxis. *Int J Mol Sci* 23 (23), 15386, [10.3390/ijms232315386](https://doi.org/10.3390/ijms232315386)
14. Polak D, Vollmann U, Grilo J, **Bogdanov IV**, Aglas L, Ovchinnikova TV, Ferreira F, Bohle B (2022). Bet v 1-independent sensitization to major allergens in Fagales pollen: evidence at the T cell level. *Allergy* 78 (3), 743–751, [10.1111/all.15594](https://doi.org/10.1111/all.15594)
15. Finkina EI, **Bogdanov IV**, Ignatova AA, Kanushkina MD, Egorova EA, Voropaev AD, Stukacheva EA, Ovchinnikova TV (2022). Antifungal Activity, Structural Stability, and Immunomodulatory Effects on Human Immune Cells of Defensin from the Lentil Lens culinaris. *Membranes (Basel)* 12 (9), , [10.3390/membranes12090855](https://doi.org/10.3390/membranes12090855)
16. Guryanova SV, Finkina EI, Melnikova DN, **Bogdanov IV**, Bohle B, Ovchinnikova TV (2022). How Do Pollen Allergens Sensitize? *Front Mol Biosci* 9, 900533, [10.3389/fmolb.2022.900533](https://doi.org/10.3389/fmolb.2022.900533)
17. Panteleev PV, Safronova VN, Kruglikov RN, Bolosov IA, **Bogdanov IV**, Ovchinnikova TV (2022). A Novel Proline-Rich Cathelicidin from the Alpaca Vicugna pacos with Potency to Combat Antibiotic-Resistant Bacteria: Mechanism of Action and the Functional Role of the C-Terminal Region. *Membranes (Basel)* 12 (5), , [10.3390/membranes12050515](https://doi.org/10.3390/membranes12050515)
18. Svirshchevskaya EV, Sharonova NV, Poltavtseva RA, Konovalova MV, Efimov AE, Popov AA, Sizova SV, Solovyeva DO, **Bogdanov IV**, Oleinikov VA (2022). Silicon–Gold Nanoparticles Affect Wharton’s Jelly Phenotype and Secretome during Tri-Lineage Differentiation. *Int J Mol Sci* 23 (4), , [10.3390/ijms23042134](https://doi.org/10.3390/ijms23042134)
19. Melnikova DN, Finkina EI, **Bogdanov IV**, Ignatova AA, Matveevskaya S, Tagaev A, Ovchinnikova V (2021). Effect of Point Mutations on Structural and Allergenic Properties of the Lentil Allergen Len c 3. *Membranes (Basel)* 11 (12), 939, [10.3390/membranes11120939](https://doi.org/10.3390/membranes11120939)
20. Finkina EI, Melnikova DN, **Bogdanov IV**, Ignatova AA, Ovchinnikova TV (2021). Do lipids influence gastrointestinal processing: A case study of major soybean allergen gly m 4. *Membranes (Basel)* 11 (10), , [10.3390/membranes11100754](https://doi.org/10.3390/membranes11100754)

21. Akhiyarova GR, Ivanov RS, Ivanov II, Finkina EI, Melnikova DN, **Bogdanov IV**, Nuzhnaya T, Ovchinnikova TV, Veselov DS, Kudoyarova GR (2021). Effects of salinity and abscisic acid on lipid transfer protein accumulation, suberin deposition and hydraulic conductance in pea roots. *Membranes (Basel)* 11 (10), , [10.3390/membranes11100762](https://doi.org/10.3390/membranes11100762)
22. **Bogdanov IV**, Finkina EI, Melnikova DN, Ziganshin RH, Ovchinnikova TV (2021). Investigation of Sensitization Potential of the Soybean Allergen Gly m 4 by Using Caco-2/Immune Cells Co-Culture Model. *Nutrients* 13 (6), , [10.3390/nu13062058](https://doi.org/10.3390/nu13062058)
23. Finkina EI, Melnikova DN, **Bogdanov IV**, Matveevskaya NS, Ignatova AA, Toropygin IY, Ovchinnikova TV (2020). Impact of Different Lipid Ligands on the Stability and IgE-Binding Capacity of the Lentil Allergen Len c 3. *Biomolecules* 10 (12), 1–15, [10.3390/biom10121668](https://doi.org/10.3390/biom10121668)
24. Melnikova D, **Bogdanov I**, Ovchinnikova T, Finkina E (2020). Interaction between the Lentil Lipid Transfer Protein Lc-LTP2 and Its Novel Signal Ligand PI(4,5)P2. *Membranes (Basel)* 10 (11), 1–11, [10.3390/membranes10110357](https://doi.org/10.3390/membranes10110357)
25. Melnikova DN, **Bogdanov IV**, Ignatova AA, Ovchinnikova TV, Finkina EI (2020). New insights into ligand binding by plant lipid transfer proteins: A case study of the lentil Lc-LTP2. *Biochem Biophys Res Commun* 528 (1), 39–45, [10.1016/j.bbrc.2020.04.139](https://doi.org/10.1016/j.bbrc.2020.04.139)
26. **Bogdanov IV**, Finkina EI, Melnikova DN, Tagaev AA, Ovchinnikova TV (2019). Analysis of the Serum Cytokine Profile in Allergic Patients Opens a Way to Personalized Treatment of Allergy. *Bull Exp Biol Med* 166 (6), 770–773, [10.1007/s10517-019-04437-9](https://doi.org/10.1007/s10517-019-04437-9)
27. Finkina EI, Melnikova DN, **Bogdanov IV**, Ovchinnikova TV (2019). Peptides of the Innate Immune System of Plants. Part II. Biosynthesis, Biological Functions, and Possible Practical Applications. *Russ. J. Bioorganic Chem.* 45 (2), 55–65, [10.1134/S1068162019020043](https://doi.org/10.1134/S1068162019020043)
28. Мельникова ДН, Финкина ЕИ, **Богданов ИВ**, Овчинникова ТВ (2018). Растительные PR-белки, связывающие липиды и другие гидрофобные лиганды. *Bioorg Khim* 44 (6), 585–594, [10.1134/S0132342318060064](https://doi.org/10.1134/S0132342318060064)
29. **Богданов ИВ**, Финкина ЕИ, Мельникова ДН, Тагаев АА, Овчинникова ТВ (2018). Анализ профиля цитокинов в сыворотках пациентов с аллергией открывает путь к персонализированной аллерготерапии. *Biull Eksp Biol Med* 166 (12), 736–741.
30. Melnikova DN, Finkina EI, **Bogdanov IV**, Ovchinnikova TV (2018). Plant Pathogenesis-Related Proteins Binding Lipids and Other Hydrophobic Ligands. *Russ. J. Bioorganic Chem.* 44 (6), 586–594, [10.1134/S1068162018060055](https://doi.org/10.1134/S1068162018060055)
31. Finkina EI, Melnikova DN, **Bogdanov IV**, Ovchinnikova TV (2018). Peptides of the Innate Immune System of Plants. Part I. Structure, Biological Activity, and Mechanisms of Action. *Russ. J. Bioorganic Chem.* 44 (6), 573–585, [10.1134/S1068162019010060](https://doi.org/10.1134/S1068162019010060)
32. Finkina EI, Melnikova DN, **Bogdanov IV**, Ovchinnikova TV (2017). Plant pathogenesis-related proteins PR-10 and PR-14 as components of innate immunity system and ubiquitous allergens. *Curr Med Chem* 24 (17), 1772–1787, [10.2174/0929867323666161026154111](https://doi.org/10.2174/0929867323666161026154111)
33. Finkina EI, Melnikova DN, **Bogdanov IV**, Ovchinnikova TV (2016). Lipid Transfer Proteins As Components of the Plant Innate Immune System: Structure, Functions, and Applications. *Acta Naturae* 8 (2), 47–61, [10.32607/20758251-2016-8-2-47-61](https://doi.org/10.32607/20758251-2016-8-2-47-61)
34. **Bogdanov IV**, Shenkarev ZO, Finkina EI, Melnikova DN, Rumynskiy EI, Arseniev AS, Ovchinnikova TV (2016). A novel lipid transfer protein from the pea *Pisum sativum*: Isolation, recombinant expression, solution structure, antifungal activity, lipid binding, and allergenic properties. *BMC Plant Biol* 16 (1), 107, [10.1186/s12870-016-0792-6](https://doi.org/10.1186/s12870-016-0792-6)
35. **Bogdanov IV**, Finkina EI, Balandin SV, Melnikova DN, Stukacheva EA, Ovchinnikova TV (2015). Structural and Functional Characterization of Recombinant Isoforms of the Lentil Lipid Transfer Protein. *Acta Naturae* 7 (3), 65–73.
36. **Bogdanov IV**, Finkina EI, Balandin SV, Melnikova DN, Stukacheva EA, Ovchinnikova TV (2015). Structural and functional characterization of recombinant isoforms of the lentil lipid transfer protein. *Acta Naturae* 7 (3), 65–73, [10.32607/20758251-2015-7-3-65-73](https://doi.org/10.32607/20758251-2015-7-3-65-73)
37. Gizatullina AK, Finkina EI, Mineev KS, Melnikova DN, **Bogdanov IV**, Telezhinskaya IN, Balandin SV, Shenkarev ZO, Arseniev AS, Ovchinnikova TV (2013). Recombinant production and solution structure of lipid

transfer protein from lentil *Lens culinaris*. *Biochem Biophys Res Commun* 439 (4), 427–432, [10.1016/j.bbrc.2013.08.078](https://doi.org/10.1016/j.bbrc.2013.08.078)

38. **Bogdanov IG**, Dalev PG, Gurevich AI, Kolosov MN, Malkova VP, Plemmyannikova LA, Sorokina IB (1975). Antitumour glycopeptides from *Lactobacillus bulgaricus* cell wall. *FEBS Lett* 57 (3), 259–261, [10.1016/0014-5793\(75\)80312-7](https://doi.org/10.1016/0014-5793(75)80312-7)