

Резюме: Чудаков Дмитрий Михайлович

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/ru/users/45>

Образование

1995–2000	Россия, Москва	МГУ им. Ломоносова
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Работа в ИБХ

	Заведующий лабораторией
2018–наст.вр.	Главный научный сотрудник
2019–наст.вр.	Главный научный сотрудник
2018–2022	Заведующий лабораторией

Членство в советах и комиссиях ИБХ

	Ученый совет
2022–наст.вр.	Аттестационная комиссия

Награды

2012	Премия президента в области науки и инноваций для молодых ученых	За разработку генетически кодируемых флуоресцентных маркёров для визуализации объектов и процессов в биомедицинских исследованиях
2004	Медали РАН для молодых ученых и студентов с премией	За работу «Флуоресцентные и фотоактивируемые флуоресцентные белки»

Научные интересы

Специалист в области адаптивного иммунитета, автор более 150 работ в рецензируемых научных журналах, ряда международных патентов. Индекс Хирша - 55, цитирований - 10000. Принимал участие в более чем 50 международных конференциях.

Членство в сообществах

Член Совета по грантам Президента РФ для государственной поддержки молодых российских ученых (2013-2016), член Совета по науке при Министерстве образования и науки РФ (2013-2016). Эксперт научных фондов РФФИ, РНФ, европейских научных фондов.

Степени и звания

2022	Член-корреспондент РАН
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2016	Профессор РАН
2011	Доктор наук (Биологические науки, 03.00.03 — Молекулярная биология)
2003	Кандидат наук (Биологические науки)

Ссылки и контакты

[Google Scholar](#), ORCID: [0000-0003-2143-9824](#), Scopus: [6603256160](#)

Гранты и проекты

2014– 2016	Возрастные изменения в структуре гуморального иммунитета
2019– 2021	Происхождение и пластичность функциональных популяций В лимфоцитов и плазматических клеток
2017– 2019	Сравнительный биоинформатический анализ гамма/дельта Т-клеточных рецепторов человека

Публикации

1. Krasik SV, Bryushkova EA, Sharonov GV, Myalik DS, Shurganova EV, Komarov DV, Shagina IA, Shpudeiko PS, Turchaninova MA, Vakhitova MT, Samoylenko IV, Marinov DT, Demidov LV, Zagaynov VE, **Chudakov DM**, Serebrovskaya EO (2025). Systematic evaluation of intratumoral and peripheral BCR repertoires in three cancers. *Elife* 13, , [10.7554/eLife.89506](#)
2. Lukyanov DK, Kriukova VV, Ladell K, Shagina IA, Staroverov DB, Minasian BE, Fedosova AS, Shelyakin P, Suchalko ON, Komkov AY, Blagodatskikh KA, Miners KL, Britanova OV, Franke A, Price DA, **Chudakov DM** (2025). Repertoire-based mapping and time-tracking of T helper cell subsets in scRNA-Seq. *Front Immunol* 16, 1536302, [10.3389/fimmu.2025.1536302](#)
3. Ustiuzhanina MO, Boyko AA, Vavilova JD, Siniavin AE, Streltsova MA, Astrakhantseva IV, Drutskaya MS, **Chudakov DM**, Kovalenko EI (2024). The Antigen-Specific Response of NK Cells to SARS-CoV-2 Correlates With KIR2DS4 Expression. *J Med Virol* 96 (11), e70057, [10.1002/jmv.70057](#)
4. Tsareva A, Shelyakin PV, Shagina IA, Myshkin MY, Merzlyak EM, Kriukova VV, Apt AS, Linge IA, **Chudakov DM**, Britanova OV (2024). Aberrant adaptive immune response underlies genetic susceptibility to tuberculosis. *Front Immunol* 15, 1380971, [10.3389/fimmu.2024.1380971](#)
5. Nakonechnaya TO, Shagina IA, Myshkin MY, Mutovina ZY, Ryazantseva EV, **Chudakov DM**, Turchaninova MA, Britanova OV (2024). Interferon signature in the development of SLE: molecular mechanisms, approaches to diagnosis and treatment. *Bulletin of Russian State Medical University* (3), 4–12, [10.24075/brsmu.2024.027](#)
6. Nakonechnaya TO, Moltedo B, Putintseva EV, Leyn S, Bolotin DA, Britanova OV, Shugay M, **Chudakov DM** (2024). Convergence, plasticity, and tissue residence of regulatory T cell response via TCR repertoire prism. *Elife* 12, , [10.7554/eLife.89382](#)
7. Sheetikov SA, Khmelevskaya AA, Zornikova KV, Zvyagin IV, Shomuradova AS, Serdyuk YV, Shakirova NT, Peshkova IO, Titov A, Romaniuk DS, Shagina IA, **Chudakov DM**, Kiryukhin DO, Shcherbakova OV, Khamaganova EG, Dzutseva V, Afanasiev A, Bogolyubova AV, Efimov GA (2024). Clonal structure and the specificity of vaccine-induced T cell response to SARS-CoV-2 Spike protein. *Front Immunol* 15, 1369436, [10.3389/fimmu.2024.1369436](#)
8. Bryushkova EA, Mushenkova NV, Turchaninova MA, Lukyanov DK, **Chudakov DM**, Serebrovskaya EO (2024). B cell clonality in cancer. *Semin Immunol* 72, 101874, [10.1016/j.smim.2024.101874](#)
9. Ustiuzhanina MO, Streltsova MA, Timofeev ND, Kryukov MA, **Chudakov DM**, Kovalenko EI (2024). Autologous T-Cell-Free Antigen Presentation System Unveils hCMV-Specific NK Cell Response. *Cells* 13 (6), 530, [10.3390/cells13060530](#)
10. Serebrovskaya EO, Bryushkova EA, Lukyanov DK, Mushenkova NV, **Chudakov DM**, Turchaninova MA

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11. Karnaukhov VK, Shcherbinin DS, Chugunov AO, **Chudakov DM**, Efremov RG, Zvyagin IV, Shugay M (2024). Structure-based prediction of T cell receptor recognition of unseen epitopes using TCRen. *NAT COMPUT SCI* 4, 510–521, [10.1038/s43588-024-00653-0](https://doi.org/10.1038/s43588-024-00653-0)
 12. Britanova OV, Lupyr KR, Staroverov DB, Shagina IA, Aleksandrov AA, Ustyugov YY, Somov DV, Klimenko A, Shostak NA, Zvyagin IV, Stepanov AV, Merzlyak EM, Davydov AN, Izraelson M, Egorov ES, Bogdanova EA, Vladimirova AK, Iakovlev PA, Fedorenko DA, Ivanov RA, Skvortsova VI, Lukyanov S, **Chudakov DM** (2023). Targeted depletion of TRBV9+ T cells as immunotherapy in a patient with ankylosing spondylitis. *Nat Med* 29 (11), 2731–2736, [10.1038/s41591-023-02613-z](https://doi.org/10.1038/s41591-023-02613-z)
 13. Smirnova AO, Miroshnichenkova AM, Belyaeva LD, Kelmanson IV, Lebedev YB, Mamedov IZ, **Chudakov DM**, Komkov AY (2023). Novel bimodal TRBD1-TRBD2 rearrangements with dual or absent D-region contribute to TRB V-(D)-J combinatorial diversity. *Front Immunol* 14, 1245175, [10.3389/fimmu.2023.1245175](https://doi.org/10.3389/fimmu.2023.1245175)
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 15. Clement M, Ladell K, Miners KL, Marsden M, Chapman L, Cardus Figueras A, Scott J, Andrews R, Clare S, Kriukova VV, Lupyr KR, Britanova OV, Withers DR, Jones SA, **Chudakov DM**, Price DA, Humphreys IR (2023). Inhibitory IL-10-producing CD4+ T cells are T-bet-dependent and facilitate cytomegalovirus persistence via coexpression of arginase-1. *Elife* 12, , [10.7554/eLife.79165](https://doi.org/10.7554/eLife.79165)
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 17. Smirnova AO, Miroshnichenkova AM, Olshanskaya YV, Maschan MA, Lebedev YB, **Chudakov DM**, Mamedov IZ, Komkov A (2023). The use of non-functional clonotypes as a natural calibrator for quantitative bias correction in adaptive immune receptor repertoire profiling. *Elife* 12, , [10.7554/eLife.69157](https://doi.org/10.7554/eLife.69157)
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 19. Karnaukhov V, Paes W, Woodhouse IB, Partridge T, Nicastrì A, Brackenridge S, Shcherbinin D, **Chudakov DM**, Zvyagin IV, Ternette N, Koohy H, Borrow P, Shugay M (2022). HLA variants have different preferences to present proteins with specific molecular functions which are complemented in frequent haplotypes. *Front Immunol* 13, 1067463, [10.3389/fimmu.2022.1067463](https://doi.org/10.3389/fimmu.2022.1067463)
 20. Yang X, Garner LI, Zvyagin IV, Paley MA, Komech EA, Jude KM, Zhao X, Fernandes RA, Hassman LM, Paley GL, Savvides CS, Brackenridge S, Quastel MN, **Chudakov DM**, Bowness P, Yokoyama WM, McMichael AJ, Gillespie GM, Garcia KC (2022). Autoimmunity-associated T cell receptors recognize HLA-B*27-bound peptides. *Nature* 612 (7941), 771–777, [10.1038/s41586-022-05501-7](https://doi.org/10.1038/s41586-022-05501-7)
 21. Mikelov AI, Alekseeva EI, Komech EA, Staroverov DB, Turchaninova MA, Shugay M, **Chudakov DM**, Bazykin GA, Zvyagin IV (2022). Memory persistence and differentiation into antibody-secreting cells accompanied by positive selection in longitudinal BCR repertoires. *Elife* 11, , [10.7554/eLife.79254](https://doi.org/10.7554/eLife.79254)
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 28. Dyugay IA, Lukyanov DK, Turchaninova MA, Serebrovskaya EO, Bryushkova EA, Zaretsky AR, Khalmurzaev O, Matveev VB, Shugay M, Shelyakin PV, **Chudakov DM** (2022). Accounting for B-cell behavior and sampling bias predicts anti-PD-L1 response in bladder cancer. *Cancer Immunol Res* 10 (3), 343–353, [10.1158/2326-6066.CIR-21-0489](https://doi.org/10.1158/2326-6066.CIR-21-0489)
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 31. Maiorova V, Mollaev MD, Vikhrev P, Kulakovskaya E, Pershin D, **Chudakov DM**, Kibardin A, Maschan MA, Larin S (2021). Natural Flt3Lg-based chimeric antigen receptor (Flt3-CAR) T cells successfully target Flt3 on aml cell lines. *Vaccines (Basel)* 9 (11), , [10.3390/vaccines9111238](https://doi.org/10.3390/vaccines9111238)
 32. Izosimova AV, Yuzhakova DV, Skatova VD, Volchkova LN, Zagaynova EV, **Chudakov DM**, Sharonov GV (2021). Deciphering repertoire of b16 melanoma reactive tcra by immunization, in vitro restimulation and sequencing of ifn γ -secreting t cells. *Int J Mol Sci* 22 (18), , [10.3390/ijms22189859](https://doi.org/10.3390/ijms22189859)
 33. (конференция) Звягин ИВ, Комеч ЕА, **Чудаков ДМ** (2021). AS-RELATED TCR BETA CLONOTYPES ARE PRESENT IN DIFFERENT INFLAMED TISSUES OF PATIENTS WITH SPONDYLOARTHRITIS. *Ann Rheum Dis* (80), 14–15, [10.1136/annrheumdis-2021-eular.3535](https://doi.org/10.1136/annrheumdis-2021-eular.3535)
 34. Karnaukhov V, Paes W, Woodhouse IB, Partridge T, Nicastri A, Brackenridge S, Scherbinin D, **Chudakov DM**, Zvyagin IV, Ternette N, Koohy H, Borrow P, Shugay M (2021). HLA binding of self-peptides is biased towards proteins with specific molecular functions. *Biorxiv* , , [10.1101/2021.02.16.431395](https://doi.org/10.1101/2021.02.16.431395)
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 36. Minervina AA, Komech EA, Titov A, Koraichi MB, Rosati E, Mamedov IZ, Franke A, Efimov GA, **Chudakov DM**, Mora T, Walczak AM, Lebedev YB, Pogorelyy MV (2021). Longitudinal high-throughput TCR repertoire profiling reveals the dynamics of T-cell memory formation after mild COVID-19 infection. *Elife* 10, 1–17, [10.7554/eLife.63502](https://doi.org/10.7554/eLife.63502)
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