

## Резюме: Лебедев Юрий Борисович

### 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/25>

### Образование

1973–1978

Москва

МГУ

### Работа в ИБХ

2018–наст.вр.

Главный научный сотрудник

2026–2024

Профессор

### Членство в советах и комиссиях ИБХ

Диссертационный совет

Ученый совет

### Научные интересы

Руководитель лаборатории доктор биологических наук Юрий Борисович Лебедев является одним из ведущих отечественных специалистов в области изучения структуры, функционирования и эволюции генома млекопитающих. Исследования в этой области начаты Ю. Б. Лебедевым в начале 1990-х, когда он с группой молодых ученых лаборатории академика Е. Д. Свердлова вошли в число первых участников Российской программы «Геном Человека». Как руководитель лаборатории Ю. Б. Лебедев продолжает разрабатывать оригинальное направление эволюционной геномики, связанное с исследованием функциональных последствий распространения и активации ретропозонов в геномах высших приматов.

### Членство в сообществах

В 1996 г. Лебедев Ю. Б. был принят в члены HUGO.

### Степени и звания

Профессор

Доктор наук (Биологические науки, 03.00.03 — Молекулярная биология)

### Гранты и проекты

2020–2022 [Взаимодействие генотипа и репертуара Т-лимфоцитов при формировании противовирусного иммунного ответа](#)

2015–2019 [Изучение динамики системы клеточного адаптивного иммунитета при флавивирусной инфекции](#)

2017–2020 [Анализ клонального спектра малых субпопуляций Т-лимфоцитов при формировании иммунного ответа у человека](#)

## Публикации

1. Salnikova MA, Tuchynskaya KK, Minervina AA, Pogorelyy MV, Okhezin EV, Karganova GG, Mamedov IZ, **Lebedev YB** (2025). Tick-borne encephalitis virus variants drive distinct TCR repertoire alterations. *Front Immunol* 16, 1663781, [10.3389/fimmu.2025.1663781](https://doi.org/10.3389/fimmu.2025.1663781)
2. Salnikova MA, **Lebedev YB** (2024). Longitudinal tracking of T-cell repertoire reveals long-lasting CD4<sup>+</sup> yellow fever specific clone cluster. *Russian Journal of Infection and Immunity* 14 (3), 539–543, [10.15789/2220-7619-LTO-16665](https://doi.org/10.15789/2220-7619-LTO-16665)
3. 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)
4. 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)
5. Komech EA, Koltakova AD, Barinova AA, Minervina AA, Salnikova MA, Shmidt EI, Korotaeva TV, Loginova EY, Erdes SF, Bogdanova EA, Shugay M, Lukyanov S, **Lebedev YB**, Zvyagin IV (2022). TCR repertoire profiling revealed antigen-driven CD8<sup>+</sup> T cell clonal groups shared in synovial fluid of patients with spondyloarthritis. *Front Immunol* 13, 973243, [10.3389/fimmu.2022.973243](https://doi.org/10.3389/fimmu.2022.973243)
6. Sycheva AL, Komech EA, Pogorelyy MV, Minervina AA, Urazbakhtin SZ, Salnikova MA, Vorovitch MF, Kopantzev EP, Zvyagin IV, Komkov AY, Mamedov IZ, **Lebedev YB** (2022). Inactivated tick-borne encephalitis vaccine elicits several overlapping waves of T cell response. *Front Immunol* 13, 970285, [10.3389/fimmu.2022.970285](https://doi.org/10.3389/fimmu.2022.970285)
7. Urazbakhtin S, Smirnova A, Volakhava A, Zerkalnikova E, Salyutina M, Doubek M, Jelinkova H, Khudainazarova N, Volchkov E, Belyaeva L, Komech E, Pavlova S, **Lebedev Y**, Plevova K, Olshanskaya Y, Komkov A, Mamedov I (2022). The Absence of Retroelement Activity Is Characteristic for Childhood Acute Leukemias and Adult Acute Lymphoblastic Leukemia. *Int J Mol Sci* 23 (3), , [10.3390/ijms23031756](https://doi.org/10.3390/ijms23031756)
8. **(конференция)** Sycheva AL, Pogorelyy MV, Komech EA, Urazbakhtin SZ, Minervina AA, Kopancev EP, Vorovitch MF, Zvyagin IV, Mamedov IZ, **Lebedev YB** (2021). Features of T-cell immune response to tick-borne encephalitis vaccine. *Eur J Immunol* 51 (S1), 1–448, <https://doi.org/10.1002/eji.202170200>
9. **(конференция)** Zvyagin IV, Blagov S, Fomchenkova V, Fadeeva M, Komech EA, Zhogov V, Barinova AA, Mikelov AI, Sycheva AL, **Lebedev YB**, Maschan MA (2021). T cell repertoire sequencing to study the contribution of different donor T cell subsets to patient repertoire at the early stage after αβT/CD19-depleted allogeneic hematopoietic stem cell transplantation. *Eur J Immunol* 51 (S1), 1–448, <https://doi.org/10.1002/eji.202170200>
10. **(конференция)** Комеч EA, Звягин ИВ, **Лебедев ЮБ**, Сальникова МА, , Минервина AA (2021). T-CELL REPERTOIRE OF SYNOVIAL FLUID IN SPONDYLOARTHROPATHIES EXHIBITS HALLMARKS OF HLA-DEPENDENT CLONAL EXPANSIONS AND REMAINS STABLE OVER 1.5 YEARS. *Ann Rheum Dis* (80), 204, [10.1136/annrheumdis-2021-eular.3498](https://doi.org/10.1136/annrheumdis-2021-eular.3498)
11. Kovalenko EI, Zvyagin IV, Streltsova MA, Mikelov AI, Erokhina SA, Telford G, Sapozhnikov AM, **Lebedev YB** (2021). Surface NKG2C identifies differentiated αβT-cell clones expanded in peripheral blood. *Front Immunol* 11, 613882, [10.3389/fimmu.2020.613882](https://doi.org/10.3389/fimmu.2020.613882)
12. 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)
13. Komkov AY, Urazbakhtin SZ, Saliutina MV, Komech EA, Shelygin YA, Nugmanov GA, Shubin VP, Smirnova AO, Bobrov MY, Tsukanov AS, Snezhkina AV, Kudryavtseva AV, **Lebedev YB**, Mamedov IZ (2020). SeqURE – a new copy-capture based method for sequencing of unknown Retroinsertion events. *Mob DNA* 11 (1), 33, [10.1186/s13100-020-00228-6](https://doi.org/10.1186/s13100-020-00228-6)
14. **(конференция)** Mikelov AI, Komech EA, **Lebedev YB**, Zvyagin IV (2020). In- and off- season peripheral blood T cell repertoire profiling of patients with birch pollen allergy. *Allergy* 75 (S109), 188, [10.1111/all.14506](https://doi.org/10.1111/all.14506)
15. **(конференция)** Комков АЮ, Мамедов ИЗ, **Лебедев ЮБ**, Атапина Е (2020). A cost-effective quasi single-cell assay for deciphering of clonal architecture of leukemic cells. *Klin Padiatr* 232 (3), e7, [10.1055/s-0040-](https://doi.org/10.1055/s-0040-)

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16. Minervina AA, Pogorelyy MV, Komech EA, Karnaukhov VK, Bacher P, Rosati E, Franke A, Chudakov D, Mamedov IZ, **Lebedev YB**, Mora T, Walczak AM (2020). Primary and secondary anti-viral response captured by the dynamics and phenotype of individual T cell clones. *Elife* 9, , [10.7554/eLife.53704](#)
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18. Микелов АИ, Староверов ДБ, Комеч ЕА, **Лебедев ЮБ**, Чудаков ДМ, Zvyagin IV (2019). Correlated dynamics of serum IGE and IGE+ clonotype count with allergen air level in seasonal allergic rhinitis. *Bulletin of Russian State Medical University* 5 (5), 13–22, [10.24075/brsmu.2019.072](#)
19. Komkov A, Miroshnichenkova A, Nugmanov G, Popov A, Pogorelyy M, Zapletalova E, Jelinkova H, Pospisilova S, **Lebedev Y**, Chudakov D, Olshanskaya Y, Plevova K, Maschan M, Mamedov I (2019). High-throughput sequencing of T-cell receptor alpha chain clonal rearrangements at the DNA level in lymphoid malignancies. *Br J Haematol* 188 (5), 723–731, [10.1111/bjh.16230](#)
20. **(конференция)** Mikelov AI, Turchaninova MA, Komech EA, Staroverov DB, Shvets SM, **Lebedev YB**, Chudakov DM, Zvyagin IV (2019). Longitudinal profiling of immunoglobulin heavy-chain repertoires in memory B-cells, plasmablasts and plasma cells from peripheral blood of individuals with birch pollen allergy. *Allergy* 74 (S106), 174.
21. Pogorelyy MV, Minervina AA, Shugay M, Chudakov DM, **Lebedev YB**, Mora T, Walczak AM (2019). Detecting T cell receptors involved in immune responses from single repertoire snapshots. *PLoS Biol* 17 (6), e3000314, [10.1371/journal.pbio.3000314](#)
22. Nugmanov GA, Komkov AY, Saliutina MV, Minervina AA, **Lebedev YB**, Mamedov IZ (2019). [A Pipeline for the Error-free Identification of Somatic Alu Insertions in High-throughput Sequencing Data]. *Mol Biol (Mosk)* 53 (1), 154–165, [10.1134/S0026898419010117](#)
23. Nugmanov GA, Komkov AY, Saliutina MV, Minervina AA, **Lebedev YB**, Mamedov IZ (2019). A Pipeline for the Error-Free Identification of Somatic Alu Insertions in High-Throughput Sequencing Data. *Mol Biol* 53 (1), 138–146, [10.1134/S0026893319010114](#)
24. Pogorelyy MV, Minervina AA, Touzel MP, Sycheva AL, Komech EA, Kovalenko EI, Karganova GG, Egorov ES, Komkov AY, Chudakov DM, Mamedov IZ, Mora T, Walczak AM, **Lebedev YB** (2018). Precise tracking of vaccine-responding T cell clones reveals convergent and personalized response in identical twins. *Proc Natl Acad Sci U S A* 115 (50), 12704–12709, [10.1073/pnas.1809642115](#)
25. Komkov AY, Minervina AA, Nugmanov GA, Saliutina MV, **Lebedev YB**, Mamedov IZ, Khodosevich KV (2018). An advanced enrichment method for rare somatic retroelement insertions sequencing. *Mob DNA* 9 (1), 31, [10.1186/s13100-018-0136-1](#)
26. **(конференция)** Комеч ЕА, Колтакова АД, Мясоутова АА, Коротаева ТВ, Шмидт НИ, Шостак НА, **Лебедев ЮБ**, Звягин ИВ (2018). Клональная характеристика Т-лимфоцитов очага воспаления у больных со спондилоартропатиями. *Nauchno-Prakticheskaya Revmatologiya* 56 (3), 91.
27. **(конференция)** Звягин ИВ, **Лебедев ЮБ**, Мясоутова АА, Комеч ЕА (2018). TCRbeta CDR3 motif is detected in synovial fluid of patients with different spondyloarthropathies. *FEBS Open Bio* 8, 489.
28. **(конференция)** Fomchenkova E, Komech A, Blagov , Sycheva L, **Lebedev B**, Chudakov M, Maschan A, Zvyagin V (2018). T cell repertoire profiling after hematopoietic stem cell transplantation with CD19/αβT cell depletion and donor lymphocyte infusion. *FEBS Open Bio* 8 (S1), 281: P.09–230–Tue.
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30. Komech EA, Zvyagin IV, Pogorelyy MV, Mamedov IZ, Fedorenko DA, **Lebedev YB** (2018). Characterization of the T-cell repertoire after autologous HSCT in patients with ankylosing spondylitis. *Acta Naturae* 10 (2), 48–57, [10.32607/2075851-2018-10-2-48-57](#)
31. Sycheva AL, Pogorelyy MV, Komech EA, Minervina AA, Zvyagin IV, Staroverov DB, Chudakov DM, **Lebedev YB**, Mamedov IZ (2018). Quantitative profiling reveals minor changes of T cell receptor repertoire in response

- to subunit inactivated influenza vaccine. *Vaccine* 36 (12), 1599–1605, [10.1016/j.vaccine.2018.02.027](https://doi.org/10.1016/j.vaccine.2018.02.027)
32. Pogorelyy MV, Minervina AA, Chudakov DM, Mamedov IZ, **Lebedev YB**, Mora T, Walczak AM (2018). Method for identification of condition-associated public antigen receptor sequences. *Elife* 7, , [10.7554/eLife.33050](https://doi.org/10.7554/eLife.33050)
  33. Komech EA, **Lebedev YB**, Koshenkova AV, Syrko DS, Musatkina EA, Lukyanov SA, Chudakov DM, Zvyagin IV (2018). A study of the repertoire of activated T-cell clones obtained from a patient with ankylosing spondylitis. *Bulletin of Russian State Medical University* 7 (1), 65–73, [10.24075/brsmu.2018.001](https://doi.org/10.24075/brsmu.2018.001)
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  35. Pogorelyy MV, Elhanati Y, Marcou Q, Sycheva AL, Komech EA, Nazarov VI, Britanova OV, Chudakov DM, Mamedov IZ, **Lebedev YB**, Mora T, Walczak AM (2017). Persisting fetal clonotypes influence the structure and overlap of adult human T cell receptor repertoires. *PLoS Comput Biol* 13 (7), e1005572, [10.1371/journal.pcbi.1005572](https://doi.org/10.1371/journal.pcbi.1005572)
  36. Komkov A, Miroshnichenkova A, Minervina A, Nugmanov G, **Lebedev Y**, Mamedov I, Olshanskaya Y, Maschan M (2017). High-throughput sequencing for diagnostics of minimal residual disease in acute lymphoblastic leukemia. *Klin Padiatr* , , [10.1055/s-0037-1602224](https://doi.org/10.1055/s-0037-1602224)
  37. **(конференция)** Pogorelyy M, PuelmaTouzer M, Minervina AA, Sycheva AL, Chudakov DM, Mamedov IZ, Mora T, Walczak AM, **Lebedev YB** (2017). High throughput sequencing of identical twins TCR repertoires after yellow fever vaccination. , 60.
  38. Zvyagin IV, Mamedov IZ, Tatarinova OV, Komech EA, Kurnikova EE, Boyakova EV, Brilliantova V, Shelikhova LN, Balashov DN, Shugay M, Sycheva AL, Kasatskaya SA, **Lebedev YB**, Maschan AA, Maschan MA, Chudakov DM (2017). Tracking T-cell immune reconstitution after TCR $\alpha\beta$ /CD19-depleted hematopoietic cells transplantation in children. *Leukemia* 31 (5), 1145–1153, [10.1038/leu.2016.321](https://doi.org/10.1038/leu.2016.321)
  39. **(конференция)** Сычева АЛ, Погорельый МВ, Комеч ЕА, Звягин ИВ, Мамедов ИЗ, **Лебедев ЮБ** (2017). Изучение малых субпопуляций активированных Т-лимфоцитов из крови доноров, вакцинированных против вируса жёлтой лихорадки. , 98.
  40. **(конференция)** Zvyagin I, Tatarinova O, Mamedov I, Komech E, Maschan A, Shelikhova L, Kurnikova E, Boyakova E, **Lebedev Y**, Maschan M, Chudakov D (2016). T Cell Repertoire after Alpha/Beta-T Cell Depleted Allogeneic Hematopoietic Stem Cell Transplantation in Pediatric Patients. *Blood* (128), 4582.
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  42. **(конференция)** Komkov AY, Minervina AA, Pogorelyy MV, Zvyagin IV, Panferova A, Olshanskaya Y, Chudakov DM, Maschan M, Mamedov IZ, **Lebedev YB** (2016). Next generation sequencing based approach for monitoring of minimal residual disease in acute lymphoblastic leukemia. *FEBS J* 283 (S1), 376, [10.1111/febs.13808](https://doi.org/10.1111/febs.13808)
  43. **(конференция)** Погорельый МВ, Сычева АЛ, Мамедов ИЗ, Мора Т, Вальзак АМ, **Лебедев ЮБ** (2016). Клоны Т-клеток пуповинной крови обнаруживаются в репертуарах Т-клеточных рецепторов взрослых доноров. , 23.
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  45. **(конференция)** Сычева АЛ, Погорельый МВ, Комеч ЕА, Мамедов ИЗ, **Лебедев ЮБ** (2016). Динамика Т-клеточного репертуара человека в ходе противогриппозной вакцинации и ревакцинации. , 27.
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48. (конференция) Pogorelyy MV, Sycheva AL, Komech EA, Marcou Q, Elhanati Y, Mora T, Walczak A, Mamedov IZ, **Lebedev YB** (2015). Deep TCR repertoire profiling after seasonal influenza vaccination. , 432.
49. Kurnosov AA, Ustyugova SV, Nazarov VI, Minervina AA, Komkov AY, Shugay M, Pogorelyy MV, Khodosevich KV, Mamedov IZ, **Lebedev YB** (2015). The evidence for increased L1 activity in the site of human adult brain neurogenesis. *PLoS One* 10 (2), e0117854, [10.1371/journal.pone.0117854](https://doi.org/10.1371/journal.pone.0117854)
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55. Kurnosov AA, Ustyugova SV, Pogorelyy MV, Komkov AY, Bolotin DA, Khodosevich KV, Mamedov IZ, **Lebedev YB** (2013). A novel approach to identification of somatic retroelements' insertions in human genome. *Russ. J. Bioorganic Chem.* 39 (4), 417–425, [10.1134/S1068162013040110](https://doi.org/10.1134/S1068162013040110)
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