

Resource Summary Report

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MiXCR

RRID:SCR_018725

Type: Tool

Proper Citation

MiXCR (RRID:SCR_018725)

Resource Information

URL: <https://milaboratory.com/software/mixcr/>

Proper Citation: MiXCR (RRID:SCR_018725)

Description: Software tool to processes big immunome data from raw sequences to quantitated clonotypes by MiLaboratory LLC. Universal software for analysis of T- and B-cell receptor repertoire high throughput sequencing data. Software for comprehensive adaptive immunity profiling.

Resource Type: data analysis software, data processing software, software resource, software application

Defining Citation: [PMID:25924071](#)

Keywords: Process immunome data, raw sequence, quantitated clonotype, B cell receptor, sequencing data analysis, T cell receptor, high throughput sequencing data, adaptive immunity profiling, MiLaboratory, bio.tools

Funding: Russian Science Foundation

Availability: Restricted

Resource Name: MiXCR

Resource ID: SCR_018725

Alternate IDs: biotools:MiXCR, BioTools:MiXCR

Alternate URLs: <https://github.com/milaboratory/mixcr>, <https://bio.tools/MiXCR>, <https://bio.tools/MiXCR>, <https://bio.tools/MiXCR>

License URLs: <https://github.com/milaboratory/mixcr/blob/develop/LICENSE>

Record Creation Time: 20220129T080341+0000

Record Last Update: 20250423T061047+0000

Ratings and Alerts

No rating or validation information has been found for MiXCR.

No alerts have been found for MiXCR.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 43 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#).

Yang J, et al. (2025) Transcriptomic Profiling and Tumor Microenvironment Classification Reveal Unique and Dynamic Immune Biology in HIV-Associated Kaposi Sarcoma. *Cells*, 14(2).

Fajardo-Despaigne JE, et al. (2025) Characterization and effective expansion of CD4-CD8-TCR^{hi} T cells from individuals living with type 1 diabetes. *Molecular therapy. Methods & clinical development*, 33(1), 101400.

Hong J, et al. (2024) Immunological subtyping of salivary gland cancer identifies histological origin-specific tumor immune microenvironment. *NPJ precision oncology*, 8(1), 15.

Das A, et al. (2024) Combined Immunotherapy Improves Outcome for Replication-Repair-Deficient (RRD) High-Grade Glioma Failing Anti-PD-1 Monotherapy: A Report from the International RRD Consortium. *Cancer discovery*, 14(2), 258.

Khare K, et al. (2024) TCR repertoire dynamics and their responses underscores dengue severity. *iScience*, 27(10), 110983.

Poort VM, et al. (2024) Transient Differentiation-State Plasticity Occurs during Acute Lymphoblastic Leukemia Initiation. *Cancer research*, 84(16), 2720.

Wei YC, et al. (2024) Development and characterization of human T-cell receptor (TCR) alpha and beta clones' library as biological standards and resources for TCR sequencing and engineering. *Biology methods & protocols*, 9(1), bpae064.

Kim CM, et al. (2024) A 10-Gene Signature to Predict the Prognosis of Early-Stage Triple-Negative Breast Cancer. *Cancer research and treatment*, 56(4), 1113.

Deng Y, et al. (2024) Multicellular ecotypes shape progression of lung adenocarcinoma from ground-glass opacity toward advanced stages. *Cell reports. Medicine*, 5(4), 101489.

Porcheddu V, et al. (2024) The self-reactive FVIII T cell repertoire in healthy individuals relies on a short set of epitopes and public clonotypes. *Frontiers in immunology*, 15, 1345195.

Mikelov A, et al. (2024) Ultrasensitive allele inference from immune repertoire sequencing data with MiXCR. *Genome research*, 34(12), 2293.

Sanchez Sanchez G, et al. (2024) Invariant TCR natural killer-like effector T cells in the naked mole-rat. *Nature communications*, 15(1), 4248.

Voogd L, et al. (2024) Mtb HLA-E-tetramer-sorted CD8+ T cells have a diverse TCR repertoire. *iScience*, 27(3), 109233.

Li Z, et al. (2024) Neoadjuvant tislelizumab plus stereotactic body radiotherapy and adjuvant tislelizumab in early-stage resectable hepatocellular carcinoma: the Notable-HCC phase 1b trial. *Nature communications*, 15(1), 3260.

Zhen Y, et al. (2024) Characterization of the T-cell receptor repertoire associated with lymph node metastasis in colorectal cancer. *Frontiers in oncology*, 14, 1354533.

Chun D, et al. (2024) Flt3L enhances clonal diversification and selective expansion of intratumoral CD8+ T cells while differentiating into effector-like cells. *Cell reports*, 43(12), 115023.

Aoki H, et al. (2024) CD8+ T cell memory induced by successive SARS-CoV-2 mRNA vaccinations is characterized by shifts in clonal dominance. *Cell reports*, 43(3), 113887.

Markov NS, et al. (2023) A distinctive evolution of alveolar T cell responses is associated with clinical outcomes in unvaccinated patients with SARS-CoV-2 pneumonia. *bioRxiv : the preprint server for biology*.

Das A, et al. (2023) Efficacy of Nivolumab in Pediatric Cancers with High Mutation Burden and Mismatch Repair Deficiency. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 29(23), 4770.

Larrayoz M, et al. (2023) Preclinical models for prediction of immunotherapy outcomes and immune evasion mechanisms in genetically heterogeneous multiple myeloma. *Nature medicine*, 29(3), 632.