

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 processing software, software application, data analysis software, software resource

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

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 59 mentions in open access literature.

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

Islam SMR, et al. (2025) Identification of HLA class II-restricted T cell receptors against shared PIK3CA mutations in patients with epithelial cancers. Cancer immunology, immunotherapy : CII, 75(1), 5.

Ren W, et al. (2025) Whole-genome sequencing reveals three follicular lymphoma subtypes with distinct cell of origin and patient outcomes. Cell reports. Medicine, 6(8), 102278.

Sun X, et al. (2025) Dynamic single-cell systemic immune responses in immunotherapy-treated early-stage HR+ breast cancer patients. NPJ breast cancer, 11(1), 65.

Liu C, et al. (2025) Multiomics Reveals the Immunologic Features and the Immune Checkpoint Blockade Potential of Colorectal Medullary Carcinoma. Clinical cancer research : an official journal of the American Association for Cancer Research, 31(4), 773.

Balko J, et al. (2025) Peripheral blood gene expression signatures of systemic immunity predict tumor microenvironment biology and therapeutic response in breast cancer. Research square.

Jiang J, et al. (2025) Malnutrition exacerbating neuropsychiatric symptoms on the Alzheimer's continuum is relevant to the cAMP signaling pathway: Human and mouse studies. Alzheimer's & dementia : the journal of the Alzheimer's Association, 21(2), e14506.

Fiore D, et al. (2025) A patient-derived T cell lymphoma biorepository uncovers pathogenetic mechanisms and host-related therapeutic vulnerabilities. Cell reports. Medicine, 6(4), 102029.

Wang W, et al. (2025) Liver transplant-facilitated CD161+V γ 7.2+ MAIT cell recovery demonstrates clinical benefits in hepatic failure patients. Nature communications, 16(1), 4022.

Zhu Y, et al. (2025) The insulator EACBE regulates V(D)J recombination of Tcrd gene by modulating chromatin organization. *Frontiers in immunology*, 16, 1613621.

Lupyr KR, et al. (2025) Neighborhood enrichment for the identification of antigen-specific T-cell receptors. *Briefings in bioinformatics*, 26(5).

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⁺⁺ T cells from individuals living with type 1 diabetes. *Molecular therapy. Methods & clinical development*, 33(1), 101400.

Luo H, et al. (2025) Large-Scale T-cell Receptor Repertoire Profiling Unveils Tumor-Specific Signals for Diagnosing Indeterminate Pulmonary Nodules. *Cancer research*, 85(24), 5141.

Gemünd I, et al. (2025) Characterization of human CMV-specific CD8⁺ T cells using multi-layer single-cell omics. *Cell reports methods*, 5(7), 101085.

Zhang S, et al. (2025) Immunosequencing identifies signatures of T cell responses for early detection of nasopharyngeal carcinoma. *Cancer cell*, 43(8), 1423.

Pearlman AH, et al. (2025) Detection of human brain cancers using genomic and immune cell characterization of cerebrospinal fluid through CSF-BAM. *Cancer discovery*.

Corgnac S, et al. (2025) TGF- β and IL-12 conversely orchestrate the formation of CD103⁺ CD8 tumor-resident memory T cells to regulate response to therapeutic cancer vaccine. *iScience*, 28(8), 113147.

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.