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

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: 20250517T060403+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: <u>SciCrunch Registry</u>

Usage and Citation Metrics

We found 43 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

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.

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.

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

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.

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.

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.

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.

Li X, et al. (2023) Molecular basis of differential HLA class I-restricted T cell recognition of a highly networked HIV peptide. Nature communications, 14(1), 2929.