Resource Summary Report

Generated by RRID on Aug 2, 2026

Decombinator

RRID:SCR_006732
Type: Tool

Proper Citation

Decombinator (RRID:SCR_006732)

Resource Information

URL: https://github.com/uclinfectionimmunity/Decombinator

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Description: Software suite for analysis of T cell receptor repertoire data. Used for fast, efficient analysis of T cell receptor (TcR) repertoire samples, designed to be accessible to those with no previous programming experience.

Synonyms: Decombinator v2.2, Decombinator v4.0.3

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

Defining Citation: PMID:23303508, PMID:32853330

Keywords: Python, t-cell receptor sequence, t-cell receptor, sequence, deep sequencing, TCR repertoires, repertoire data, bio.tools

Availability: Free, Available for download, Freely available

Resource Name: Decombinator

Resource ID: SCR_006732

Alternate IDs: biotools:decombinator, OMICS_00001

Alternate URLs: https://github.com/innate2adaptive/Decombinator, https://bio.tools/decombinator

Record Creation Time: 20220129T080237+0000

Record Last Update: 20260801T190312+0000

Ratings and Alerts

No rating or validation information has been found for Decombinator.

No alerts have been found for Decombinator.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 28 mentions in open access literature.

Listed below are recent publications. The full list is available at RRID .

Barroux M, et al. (2025) Evolutionary and immune microenvironment dynamics during neoadjuvant treatment of esophageal adenocarcinoma. Nature cancer, 6(5), 820.

Sandhar B, et al. (2025) Heterogeneity of thymic output in the elderly and its association with sex and smoking. JCI insight, 10(15).

Yanez DC, et al. (2025) Distinctive T-cell receptor repertoire in paediatric inflammatory multisystem syndrome temporally associated with coronavirus disease 2019/multisystem inflammatory syndrome in children patients: possible thymus involvement. Clinical and experimental immunology, 219(1).

Al Bakir M, et al. (2025) Clonal driver neoantigen loss under EGFR TKI and immune selection pressures. Nature, 639(8056), 1052.

Lindeboom RGH, et al. (2024) Human SARS-CoV-2 challenge uncovers local and systemic response dynamics. Nature, 631(8019), 189.

Vyas V, et al. (2024) Tissue-resident memory T cells in epicardial adipose tissue comprise transcriptionally distinct subsets that are modulated in atrial fibrillation. Nature cardiovascular research, 3(9), 1067.

Patin EC, et al. (2024) Sculpting the tumour microenvironment by combining radiotherapy and ATR inhibition for curative-intent adjuvant immunotherapy. Nature communications, 15(1), 6923.

Armstrong E, et al. (2024) Combination of oncolytic Maraba virus with immune checkpoint blockade overcomes therapy resistance in an immunologically cold model of advanced melanoma with dysfunctional T-cell receptor signalling. Journal for immunotherapy of cancer, 12(7).

Baker AM, et al. (2024) FUME-TCRseq Enables Sensitive and Accurate Sequencing of the T-cell Receptor from Limited Input of Degraded RNA. Cancer research, 84(10), 1560.

Rowell J, et al. (2024) Distinct T-cell receptor (TCR) gene segment usage and MHC-restriction between foetal and adult thymus. eLife, 13.

Vujovi? M, et al. (2023) Signatures of T cell immunity revealed using sequence similarity with TCRDivER algorithm. Communications biology, 6(1), 357.

Barroux M, et al. (2023) Evolutionary and immune microenvironment dynamics during neoadjuvant treatment of oesophagael adenocarcinoma. Research square.

Ronel T, et al. (2021) The clonal structure and dynamics of the human T cell response to an organic chemical hapten. eLife, 10.

Lee L, et al. (2021) Increased Immune-Regulatory Receptor Expression on Effector T Cells as Early Indicators of Relapse Following Autologous Stem Cell Transplantation for Multiple Myeloma. Frontiers in immunology, 12, 618610.

Turner CT, et al. (2021) Persistent T Cell Repertoire Perturbation and T Cell Activation in HIV After Long Term Treatment. Frontiers in immunology, 12, 634489.

Chiou SH, et al. (2021) Global analysis of shared T cell specificities in human non-small cell lung cancer enables HLA inference and antigen discovery. Immunity, 54(3), 586.

Sandgaard KS, et al. (2021) Plasticity of the Immune System in Children Following Treatment Interruption in HIV-1 Infection. Frontiers in immunology, 12, 643189.

de Greef PC, et al. (2020) The naive T-cell receptor repertoire has an extremely broad distribution of clone sizes. eLife, 9.

Thomas S, et al. (2019) Framework engineering to produce dominant T cell receptors with enhanced antigen-specific function. Nature communications, 10(1), 4451.

Fu X, et al. (2018) High-Throughput Sequencing of the Expressed Torafugu (Takifugu rubripes) Antibody Sequences Distinguishes IgM and IgT Repertoires and Reveals Evidence of Convergent Evolution. Frontiers in immunology, 9, 251.