

Resource Summary Report

Generated by [PRECISE-TBI](#) on Sep 18, 2026

COMPASS

RRID:SCR_001801

Type: Tool

Proper Citation

COMPASS (RRID:SCR_001801)

Resource Information

URL: <http://www.bioconductor.org/packages/release/bioc/html/COMPASS.html>

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Description: Software for combinatorial polyfunctionality analysis of single cells. It is a statistical framework that enables unbiased analysis of antigen-specific T-cell subsets. It uses a Bayesian hierarchical framework to model all observed cell-subsets and select the most likely to be antigen-specific while regularizing the small cell counts that often arise in multi-parameter space. The model provides a posterior probability of specificity for each cell subset and each sample, which can be used to profile a subject's immune response to external stimuli such as infection or vaccination.

Synonyms: Combinatorial Polyfunctionality Analysis of Single Cells, COMPASS - Combinatorial Polyfunctionality Analysis of Single Cells, COMPASS: Combinatorial Polyfunctionality Analysis of Single Cells

Resource Type: software resource

Defining Citation: [PMID:26006008](#)

Keywords: software package, mac os x, unix/linux, windows, r, flow cytometry

Availability: Free, Available for download, Freely available

Resource Name: COMPASS

Resource ID: SCR_001801

Alternate IDs: OMICS_05640

License: Artistic License, v2

Record Creation Time: 20220129T080209+0000

Record Last Update: 20260912T195531+0000

Ratings and Alerts

No rating or validation information has been found for COMPASS.

No alerts have been found for COMPASS.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Santos-Peral A, et al. (2025) Basal T??cell activation predicts yellow fever vaccine response independently of cytomegalovirus infection and sex-related immune variations. Cell reports. Medicine, 6(2), 101946.

Chung J, et al. (2017) Erythropoietin signaling regulates heme biosynthesis. eLife, 6.