

Resource Summary Report

Generated by SPARC SAWG on Sep 15, 2026

Cumulus

RRID:SCR_021644

Type: Tool

Proper Citation

Cumulus (RRID:SCR_021644)

Resource Information

URL: <https://cumulus.readthedocs.io/en/stable>

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Description: Software tool as cloud based single cell genomics and spatial transcriptomics data analysis framework that is scalable to massive amounts of data and able to process variety of data types. Consists of cloud analysis workflow, Python analysis package and visualization application. Supports analysis of single-cell RNA-seq, CITE-seq, Perturb-seq, single-cell ATAC-seq, single-cell immune repertoire and spatial transcriptomics data.

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

Defining Citation: [DOI:10.1038/s41592-020-0905-x](https://doi.org/10.1038/s41592-020-0905-x)

Keywords: Single cell genomics, spatial transcriptomics, single-cell RNA-seq, CITE-seq, Perturb-seq, single-cell ATAC-seq, single-cell immune repertoire, data

Funding: Frederick National Laboratory for Cancer Research ;
HHMI ;
Klarman Cell Observatory ;
Leidos Biomedical Research ;
Ludwig Center at MIT ;
Manton Foundation ;
NCI

Availability: Free, Available for download, Freely available

Resource Name: Cumulus

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Alternate URLs: <https://app.terra.bio/#workspaces/kco-tech/Cumulus>,
<https://github.com/klarman-cell-observatory/cumulus/blob/91336094646217564a4f8e7b31c03c3c6bf2e84b/docs/index.rst>

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Record Last Update: 20260912T195959+0000

Ratings and Alerts

No rating or validation information has been found for Cumulus.

No alerts have been found for Cumulus.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Jaiswal A, et al. (2026) Spatial transcriptomics reveals altered communities and drivers of aberrant epithelia and pro-fibrotic fibroblasts in interstitial lung diseases. Cell genomics, 6(3), 101066.

Kazer SW, et al. (2024) Primary nasal viral infection rewires the tissue-scale memory response. bioRxiv : the preprint server for biology.

Holman CD, et al. (2024) Aging impairs cold-induced beige adipogenesis and adipocyte metabolic reprogramming. eLife, 12.