## **Resource Summary Report**

Generated by <u>NIF</u> on May 22, 2025

# **Cumulus**

RRID:SCR\_021644 Type: Tool

**Proper Citation** 

Cumulus (RRID:SCR\_021644)

## **Resource Information**

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

Proper Citation: Cumulus (RRID:SCR\_021644)

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

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

Availability: Free, Available for download, Freely available

Resource Name: Cumulus

Resource ID: SCR\_021644

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

**Record Creation Time:** 20220129T080356+0000

Record Last Update: 20250522T061314+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 2 mentions in open access literature.

Listed below are recent publications. The full list is available at <u>NIF</u>.

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

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