

Resource Summary Report

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HuBMAP Data Portal

RRID:SCR_021703

Type: Tool

Proper Citation

HuBMAP Data Portal (RRID:SCR_021703)

Resource Information

URL: <https://portal.hubmapconsortium.org/>

Proper Citation: HuBMAP Data Portal (RRID:SCR_021703)

Description: Data portal as part of Human BioMolecular Atlas Program. Data available on HuBMAP Portal is open access data to be used for research of human biology. Certain data types with potential for re-identification are available in restricted access either directly through this portal by login-dependent permissions or through dbGAP. All data users are expected to respect privacy and confidentiality of donors who provided samples. Data are not to be used to re-identify donors or their family members without further approval from HuBMAP. Data for single-cell, three-dimensional maps of various human tissues. Data include discrete, complex organs (kidney, ureter, bladder, lung, breast, small intestine and colon); distributed organ systems (vasculature); systems comprising dynamic or motile cell types with distinct microenvironments (lymphatic organs: spleen, thymus, and lymph nodes).

Resource Type: data or information resource, portal

Defining Citation: [DOI:s41586-019-1629-x](#)

Keywords: single-cell, three-dimensional maps, human tissues, open access data for human biology research

Availability: Free, Freely available

Resource Name: HuBMAP Data Portal

Resource ID: SCR_021703

Alternate IDs: r3d100013719

Record Creation Time: 20220129T080357+0000

Record Last Update: 20260808T190324+0000

Ratings and Alerts

No rating or validation information has been found for HuBMAP Data Portal.

No alerts have been found for HuBMAP Data Portal.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 51 mentions in open access literature.

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

Börner K, et al. (2026) SenNet Portal: Build, Optimization and Usage. bioRxiv : the preprint server for biology.

Bueckle A, et al. (2026) Cell Type Populations for 3D Anatomical Structures of the Human Reference Atlas. Scientific data, 13(1).

Fisher SA, et al. (2026) The HuBMAP Framework for Advancing Data FAIRness. bioRxiv : the preprint server for biology.

Miao Y, et al. (2026) Foundation cell segmentation models performance on live microscopy and spatial-omics data. bioRxiv : the preprint server for biology.

Turner ML, et al. (2026) HuBMAP Data Portal: A Resource for Multimodal Spatial and Single-Cell Data of Healthy Human Tissues. ArXiv.

Dos Santos Peixoto R, et al. (2025) Characterizing cell-type spatial relationships across length scales in spatially resolved omics data. Nature communications, 16(1), 350.

Bueckle A, et al. (2025) Construction, Deployment, and Usage of the Human Reference Atlas Knowledge Graph for Linked Open Data. bioRxiv : the preprint server for biology.

Chen H, et al. (2025) A unified analysis of atlas single-cell data. Genome research, 35(5), 1219.

Hu J, et al. (2025) Benchmarking single cell transcriptome matching methods for incremental growth of reference atlases. bioRxiv : the preprint server for biology.

Bueckle A, et al. (2025) Construction, Deployment, and Usage of the Human Reference Atlas Knowledge Graph. Scientific data, 12(1), 1100.

O'Connor MJ, et al. (2025) Ensuring Adherence to Standards in Experiment-Related Metadata Entered Via Spreadsheets. Scientific data, 12(1), 265.

Chen H, et al. (2025) 3DCellComposer - A versatile pipeline utilizing 2D cell segmentation methods for 3D cell segmentation. Methods (San Diego, Calif.), 242, 113.

Chen H, et al. (2025) CytoSpatio: Learning cell type spatial relationships using multirange, multitype point process models. *PLoS computational biology*, 21(8), e1013409.

Smith JA, et al. (2025) Protocol for processing and analyzing multiplexed images improves lymphatic cell identification and spatial architecture in human tissue. *STAR protocols*, 6(3), 103976.

Börner K, et al. (2025) Human BioMolecular Atlas Program (HuBMAP): 3D Human Reference Atlas construction and usage. *Nature methods*, 22(4), 845.

Duong TE, et al. (2025) A Multimodal Spatial and Epigenomic Atlas of Human Adult Lung Topography. *bioRxiv : the preprint server for biology*.

Farrow MA, et al. (2025) A lipid atlas of the human kidney. *Science advances*, 11(24), eadu3730.

Border SP, et al. (2025) FUSION: a web-based application for in-depth exploration of multi-omics data with brightfield histology. *Nature communications*, 16(1), 8388.

Bueckle A, et al. (2025) Constructing and Using Cell Type Populations of the Human Reference Atlas. *bioRxiv : the preprint server for biology*.

Schienstock D, et al. (2025) Cecelia: a multifunctional image analysis toolbox for decoding spatial cellular interactions and behaviour. *Nature communications*, 16(1), 1931.