

Resource Summary Report

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The Human BioMolecular Atlas Program

RRID:SCR_016922

Type: Tool

Proper Citation

The Human BioMolecular Atlas Program (RRID:SCR_016922)

Resource Information

URL: <https://commonfund.nih.gov/hubmap>

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Description: Project to facilitate research on single cells within tissues by supporting data generation and technology development to explore the relationship between cellular organization and function, as well as variability in normal tissue organization at the level of individual cells. Framework for functional mapping the human body with cellular resolution. Designed to support diverse spatial and non-spatial omics and imaging data types and to integrate with a wide range of analysis workflows.

Abbreviations: HuBMAP

Synonyms: Human BioMolecular Atlas Program, HuBMAP, The Human BioMolecular Atlas Program, NIH HuBMAP

Resource Type: data or information resource, funding resource, portal, project portal

Keywords: organism, cell, tissue, data, generation, technology, organization, functional, mapping, human, body

Funding: NIH

Resource Name: The Human BioMolecular Atlas Program

Resource ID: SCR_016922

Alternate URLs: <https://humanatlas.io/omap>, <https://avr.hubmapconsortium.org/>, <https://commonfund.nih.gov/HuBMAP>, <https://zenodo.org/records/5244551>

Record Creation Time: 20220129T080332+0000

Record Last Update: 20260905T132815+0000

Ratings and Alerts

No rating or validation information has been found for The Human BioMolecular Atlas Program.

No alerts have been found for The Human BioMolecular Atlas Program.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 26 mentions in open access literature.

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

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

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.

Levites Strekalova YA, et al. (2025) Summer Research Internship Curriculum to Promote Self-Efficacy, Researcher Identity, and Peer-to-Peer Learning: Retrospective Cohort Study. JMIR formative research, 9, e54167.

Ahooyi TM, et al. (2025) The Data Distillery: A Graph Framework for Semantic Integration and Querying of Biomedical Data. bioRxiv : the preprint server for biology.

Taube JM, et al. (2025) Society for Immunotherapy of Cancer: updates and best practices for multiplex immunohistochemistry (IHC) and immunofluorescence (IF) image analysis and data sharing. Journal for immunotherapy of cancer, 13(1).

Levine SR, et al. (2025) Report of the 2023 Mary Tyler Moore Vision Initiative Workshop. Translational vision science & technology, 14(7), 11.

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.

Zemaitis KJ, et al. (2024) Spatial top-down proteomics for the functional characterization of human kidney. bioRxiv : the preprint server for biology.

Bialy N, et al. (2024) Harmonizing the Generation and Pre-publication Stewardship of FAIR Image data. ArXiv.

Chen H, et al. (2024) CytoSpatio: Learning cell type spatial relationships using multirange, multitype point process models. bioRxiv : the preprint server for biology.

Börner K, et al. (2024) Human BioMolecular Atlas Program (HuBMAP): 3D Human Reference Atlas Construction and Usage. *bioRxiv : the preprint server for biology*.

Baker GJ, et al. (2024) Quality control for single-cell analysis of high-plex tissue profiles using CyLinter. *Nature methods*, 21(12), 2248.

Yayon N, et al. (2024) A spatial human thymus cell atlas mapped to a continuous tissue axis. *Nature*, 635(8039), 708.

Solis-Leal A, et al. (2024) The HIV-1 vpr R77Q Mutant Induces Apoptosis, G2 Cell Cycle Arrest, and Lower Production of Pro-Inflammatory Cytokines in Human CD4+ T Cells. *Viruses*, 16(10).

Canela VH, et al. (2023) A spatially anchored transcriptomic atlas of the human kidney papilla identifies significant immune injury in patients with stone disease. *Nature communications*, 14(1), 4140.

Hölscher DL, et al. (2023) Next-Generation Morphometry for pathomics-data mining in histopathology. *Nature communications*, 14(1), 470.

Singhal D, et al. (2023) Mapping the lymphatic system across body scales and expertise domains: A report from the 2021 National Heart, Lung, and Blood Institute workshop at the Boston Lymphatic Symposium. *Frontiers in physiology*, 14, 1099403.

Bueckle A, et al. (2023) The HRA Organ Gallery Affords Immersive Superpowers for Building and Exploring the Human Reference Atlas with Virtual Reality. *bioRxiv : the preprint server for biology*.

Bueckle A, et al. (2023) The HRA Organ Gallery affords immersive superpowers for building and exploring the Human Reference Atlas with virtual reality. *Frontiers in bioinformatics*, 3, 1162723.