

Resource Summary Report

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MeshView

RRID:SCR_017222

Type: Tool

Proper Citation

MeshView (RRID:SCR_017222)

Resource Information

URL: <https://github.com/Neural-Systems-at-UIO/MeshView-for-Brain-Atlases>

Proper Citation: MeshView (RRID:SCR_017222)

Description: Web application for real time 3D display of surface mesh data representing structural parcellations and generation of user defined cut planes from volumetric atlases.

Synonyms: MeshView for brain atlases

Resource Type: software resource, data access protocol, web service

Defining Citation: [DOI:10.1371/journal.pone.0216796](https://doi.org/10.1371/journal.pone.0216796)

Keywords: real, time, 3D, display, surface, mesh, data, structural, parcellation, generation, defined, cut, plane, volumetric, atlas, brain

Funding: European Union Horizon 2020 Human brain project

Availability: Free, Freely available

Resource Name: MeshView

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Alternate URLs: <https://localiview.apps.ebrains.eu/>, <https://meshview-for-brain-atlases.readthedocs.io>, <https://github.com/Neural-Systems-at-UIO/MeshView-for-Brain-Atlases>

Record Creation Time: 20220129T080334+0000

Record Last Update: 20260808T190105+0000

Ratings and Alerts

No rating or validation information has been found for MeshView.

No alerts have been found for MeshView.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 11 mentions in open access literature.

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

Puchades MA, et al. (2025) Software and pipelines for registration and analyses of rodent brain image data in reference atlas space. *Frontiers in neuroinformatics*, 19, 1629388.

Vadisiute A, et al. (2024) Glial cells undergo rapid changes following acute chemogenetic manipulation of cortical layer 5 projection neurons. *Communications biology*, 7(1), 1286.

Blixhavn CH, et al. (2024) The Locare workflow: representing neuroscience data locations as geometric objects in 3D brain atlases. *Frontiers in neuroinformatics*, 18, 1284107.

??vsthus M, et al. (2024) Spatially integrated cortico-subcortical tracing data for analyses of rodent brain topographical organization. *Scientific data*, 11(1), 1214.

Kleven H, et al. (2024) Comparison of basal ganglia regions across murine brain atlases using metadata models and the Waxholm Space. *Scientific data*, 11(1), 1036.

Kleven H, et al. (2023) A neuroscientist's guide to using murine brain atlases for efficient analysis and transparent reporting. *Frontiers in neuroinformatics*, 17, 1154080.

Kleven H, et al. (2023) Waxholm Space atlas of the rat brain: a 3D atlas supporting data analysis and integration. *Nature methods*, 20(11), 1822.

Tocco C, et al. (2022) The topography of corticopontine projections is controlled by postmitotic expression of the area-mapping gene *Nr2f1*. *Development (Cambridge, England)*, 149(5).

Yao Y, et al. (2022) Cardiovascular baroreflex circuit moonlights in sleep control. *Neuron*, 110(23), 3986.

Leergaard TB, et al. (2022) Atlas-based data integration for mapping the connections and architecture of the brain. *Science (New York, N.Y.)*, 378(6619), 488.

Royan MR, et al. (2021) 3D Atlas of the Pituitary Gland of the Model Fish Medaka (*Oryzias latipes*). *Frontiers in endocrinology*, 12, 719843.