

Resource Summary Report

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Connectomic reconstruction of the inner plexiform layer in the mouse retina

RRID:SCR_002246

Type: Tool

Proper Citation

Connectomic reconstruction of the inner plexiform layer in the mouse retina
(RRID:SCR_002246)

Resource Information

URL: <http://www.neuro.mpg.de/connectomics>

Proper Citation: Connectomic reconstruction of the inner plexiform layer in the mouse retina (RRID:SCR_002246)

Description: Data set of the dense reconstruction of 950 neurons and their mutual contacts for the mouse inner plexiform layer--the main computational neuropil region in the mammalian retina. This was achieved by applying a combination of crowd-sourced manual annotation and machine-learning-based volume segmentation to serial block-face electron microscopy data. They characterize a new type of retinal bipolar interneuron and show that they can subdivide a known type based on connectivity. Circuit motifs that emerge from their data indicate a functional mechanism for a known cellular response in a ganglion cell that detects localized motion, and predict that another ganglion cell is motion sensitive. A Data browser is also available for download

Abbreviations: MPIN Connectomics

Resource Type: data or information resource, data set

Defining Citation: [PMID:23925239](#)

Keywords: connectome, retina, retina inner plexiform layer

Funding: Max-Planck-Gesellschaft ;
DFG ;
Gatsby Charitable Foundation

Availability: Free, Freely available

Resource Name: Connectomic reconstruction of the inner plexiform layer in the mouse retina

Resource ID: SCR_002246

Alternate IDs: nlx_155563

Record Creation Time: 20220129T080212+0000

Record Last Update: 20260905T133322+0000

Ratings and Alerts

No rating or validation information has been found for Connectomic reconstruction of the inner plexiform layer in the mouse retina.

No alerts have been found for Connectomic reconstruction of the inner plexiform layer in the mouse retina.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Behrens C, et al. (2016) Connectivity map of bipolar cells and photoreceptors in the mouse retina. eLife, 5.