

Resource Summary Report

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Neocortical Microcircuit Portal

RRID:SCR_022032

Type: Tool

Proper Citation

Neocortical Microcircuit Portal (RRID:SCR_022032)

Resource Information

URL: <https://bbp.epfl.ch/nmc-portal/welcome.html>

Proper Citation: Neocortical Microcircuit Portal (RRID:SCR_022032)

Description: Neocortical microcircuit collaboration portal is resource for rat somatosensory cortex. NMC portal allows users to access experimental data used in reconstruction process, download cellular and synaptic models, and analyze predicted properties of microcircuit.

Synonyms: Blue Brain Neocortical Microcircuit Portal, NMC portal

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

Defining Citation: [DOI:10.3389/fncir.2015.00044](https://doi.org/10.3389/fncir.2015.00044)

Keywords: rat somatosensory cortex, reconstruction process, cellular and synaptic models, microcircuit, microcircuit predicted properties

Funding: European Union Seventh Framework Program ;
Gatsby Charitable Foundation ;
Cajal Blue Brain project ;
Ministerio de Economía y Competitividad Spanish Ministry of Education and Science ;
EPFL Hebrew University Collaborative Grant ;
EPFL

Availability: Free, Freely available

Resource Name: Neocortical Microcircuit Portal

Resource ID: SCR_022032

Record Creation Time: 20220421T050138+0000

Record Last Update: 20260814T043048+0000

Ratings and Alerts

No rating or validation information has been found for Neocortical Microcircuit Portal.

No alerts have been found for Neocortical Microcircuit Portal.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Jin S, et al. (2025) Brain connectome from neuronal morphology. Network neuroscience (Cambridge, Mass.), 9(3), 913.

Haynes VR, et al. (2024) Discovering optimal features for neuron-type identification from extracellular recordings. Frontiers in neuroinformatics, 18, 1303993.

Jiang HJ, et al. (2024) A layered microcircuit model of somatosensory cortex with three interneuron types and cell-type-specific short-term plasticity. Cerebral cortex (New York, N.Y. : 1991), 34(9).

Garcia S, et al. (2024) A Modular Implementation to Handle and Benchmark Drift Correction for High-Density Extracellular Recordings. eNeuro, 11(2).

Iavarone E, et al. (2023) Thalamic control of sensory processing and spindles in a biophysical somatosensory thalamoreticular circuit model of wakefulness and sleep. Cell reports, 42(3), 112200.