

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

**Availability:** Free, Freely available

**Resource Name:** Neocortical Microcircuit Portal

**Resource ID:** SCR\_022032

**Record Creation Time:** 20220421T050138+0000

**Record Last Update:** 20260829T182903+0000

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## Ratings and Alerts

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

No alerts have been found for Neocortical Microcircuit Portal.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 5 mentions in open access literature.

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

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.