

# Resource Summary Report

Generated by [dkNET](#) on May 18, 2025

## Neocortical Microcircuit Database

RRID:SCR\_002415

Type: Tool

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### Proper Citation

Neocortical Microcircuit Database (RRID:SCR\_002415)

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### Resource Information

**URL:** <http://microcircuit.epfl.ch/>

**Proper Citation:** Neocortical Microcircuit Database (RRID:SCR\_002415)

**Description:** THIS RESOURCE IS NO LONGER IN SERVICE, documented on April 26, 2011. Neurons are characterized in terms of their morphological, physiological and gene expression profiles. Synaptic connections are characterized in terms of their physiological and anatomical profiles. Neuron morphology profiles are obtained from detailed morphometric breakdown of 3D reconstructed neurons (m-Profiles), neuron physiology profiles are obtained from detailed measurement of the electrophysiological responses to a series of stimulus protocols (e-Profiles), and neuron gene expression profiles are obtained from single cell RT-PCR data (g-Profiles) and in the near future from gene-chips. Synaptic connections are characterized by the identity of the pre and postsynaptic neurons (sn-Profile), the anatomy of synaptic connections as characterized by the axonal and dendritic location of light microscopically identified putative synapses (sm-Profile), and the physiology of synaptic connections as characterized by a profile of electrophysiological parameters obtained from a series of stimulation protocols applied to the presynaptic neuron (se-Profile).

**Abbreviations:** NMDB

**Resource Type:** database, data or information resource

**Defining Citation:** [PMID:15923726](#)

**Keywords:** electrophysiologythis site will provide a major resource for those interested in cortical microcircuitry once it is complete. it currently has almost 300 neuronal reconstructions and 176 connections mapped., gene expression, 3d reconstruction, analysis tools, connectivity, cortical neuron, intracellular injection, intracellular recording, microcircuit, microcircuitry, microscopy, neurolucida, neuron morphology, rat, synaptic connectivity

**Funding:**

**Availability:** THIS RESOURCE IS NO LONGER IN SERVICE

**Resource Name:** Neocortical Microcircuit Database

**Resource ID:** SCR\_002415

**Alternate IDs:** nif-0000-00124

**Record Creation Time:** 20220129T080213+0000

**Record Last Update:** 20250517T055532+0000

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## Ratings and Alerts

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

No alerts have been found for Neocortical Microcircuit Database.

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## Data and Source Information

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

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.