

# Resource Summary Report

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## [NeuroWiki](#)

RRID:SCR\_004066

Type: Tool

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### Proper Citation

NeuroWiki (RRID:SCR\_004066)

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### Resource Information

**URL:** <https://neurowiki.case.edu/>

**Proper Citation:** NeuroWiki (RRID:SCR\_004066)

**Description:** Curriculum materials for an Introduction to Neurobiology course for undergraduate and graduate students.

The course focuses on the analysis of neurons and neural circuits for behavior using the fundamental principles of neuroscience. From the online course syllabus, the 24 units that make up the course may be directly accessed. Each unit contains a reading, links to at least one simulation, and a problem set.

A list of all available simulations can be found here:

<https://neurowiki.case.edu/wiki/Simulations>. \* 25 simulations are written in JavaScript and will run in any browser.

Source code: <https://github.com/CWRUChielLab/JSNeuroSim> \* Pre-compiled executables (Windows, Mac, Linux) are available for 1 desktop simulation, the Nernst Potential Simulator.

Source code: <https://github.com/CWRUChielLab/Nernst> Structure of the Course \* Solving problems based on simulations of neuronal components, neurons, and simple circuits to understand how they work. \* For advanced students, writing a neuroscience Wikipedia article, critical review, or grant, in stages.

**Abbreviations:** NeuroWiki

**Resource Type:** narrative resource, data or information resource, software resource, curriculum material, source code, training material

**Keywords:** simulation, neuron, neural circuit, neurobiology, neuroscience

**Funding:** Case Western Reserve University; Ohio; USA ;  
Active Learning Fellowship ;  
NIH ;  
Graduate Assistance in Areas of National Need

**Availability:** Text:, Creative Commons Attribution-NonCommercial-ShareAlike License, 4.0 International, Nernst Potential Simulator:, GNU General Public License, v3, JavaScript simulations:, GNU Affero General Public License, v3

**Resource Name:** NeuroWiki

**Resource ID:** SCR\_004066

**Alternate IDs:** nlx\_158502

**Record Creation Time:** 20220129T080222+0000

**Record Last Update:** 20250411T054904+0000

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## Ratings and Alerts

No rating or validation information has been found for NeuroWiki.

No alerts have been found for NeuroWiki.

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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.