Resource Summary Report

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NeuroWiki

RRID:SCR_004066
Type: Tool

Proper Citation

NeuroWiki (RRID:SCR_004066)

Resource Information

URL: https://neurowiki.case.edu/

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

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: 20250429T054854+0000

Ratings and Alerts

No rating or validation information has been found for NeuroWiki.

No alerts have been found for NeuroWiki.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We have not found any literature mentions for this resource.