

Resource Summary Report

Generated by [PRECISE-TBI](#) on Sep 8, 2026

Neuromembrane Simulator

RRID:SCR_015241

Type: Tool

Proper Citation

Neuromembrane Simulator (RRID:SCR_015241)

Resource Information

URL: <https://neuromembrane.ualberta.ca>

Proper Citation: Neuromembrane Simulator (RRID:SCR_015241)

Description: Simulator to help students understand basic properties of excitable membranes, particularly ion flow across an excitable membrane. The simulator is based on the equations developed by Alan Hodgkin and Andrew Huxley following their research on the excitability properties of the squid giant axon.

Resource Type: simulation software, software application, software resource

Keywords: action potential, excitable membrane, membrane simulator

Availability: Open source

Resource Name: Neuromembrane Simulator

Resource ID: SCR_015241

Record Creation Time: 20220129T080324+0000

Record Last Update: 20260905T132754+0000

Ratings and Alerts

No rating or validation information has been found for Neuromembrane Simulator.

No alerts have been found for Neuromembrane Simulator.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Dragly SA, et al. (2017) Neuronify: An Educational Simulator for Neural Circuits. eNeuro, 4(2).