

# Resource Summary Report

Generated by SPARC SAWG on Aug 9, 2026

## Neuromembrane Simulator

RRID:SCR\_015241

Type: Tool

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### Proper Citation

Neuromembrane Simulator (RRID:SCR\_015241)

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### 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:** software resource, software application, simulation software

**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:** 20260808T190022+0000

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### Ratings and Alerts

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

No alerts have been found for Neuromembrane Simulator.

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### 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 [SPARC SAWG](#) .

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