Resource Summary Report

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Parallel Stochastic Ion Channel Simulator

RRID:SCR_014159
Type: Tool

Proper Citation

Parallel Stochastic Ion Channel Simulator (RRID:SCR_014159)

Resource Information

URL: http://www.nitrc.org/projects/psics

Proper Citation: Parallel Stochastic Ion Channel Simulator (RRID:SCR_014159)

Description: Software for efficient generation and simulation of models containing stochastic ion channels distributed across dendritic and axonal membranes. It computes the behavior of neurons taking account of the stochastic nature of ion channel gating and the detailed positions of the channels themselves. It is designed as a complement for existing tools.

Abbreviations: PSICS

Resource Type: simulation software, software resource, software application

Keywords: simulation software, ion channel, dendritic membrane, axonal membrane, neuronal behavior, stochastic simulation

Funding: BBSRC

Availability: Public, Free

Resource Name: Parallel Stochastic Ion Channel Simulator

Resource ID: SCR_014159

Alternate URLs: http://www.psics.org

License: GNU General Public License

Record Creation Time: 20220129T080319+0000

Record Last Update: 20250416T063659+0000

Ratings and Alerts

No rating or validation information has been found for Parallel Stochastic Ion Channel Simulator.

No alerts have been found for Parallel Stochastic Ion Channel 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 FDI Lab - SciCrunch.org.

Mehta K, et al. (2023) Online conversion of reconstructed neural morphologies into standardized SWC format. Nature communications, 14(1), 7429.