

Resource Summary Report

Generated by [NIF](#) on Sep 1, 2026

IonChannelLab

RRID:SCR_014762

Type: Tool

Proper Citation

IonChannelLab (RRID:SCR_014762)

Resource Information

URL: <http://www.jadesantiago.com/Electrophysiology/IonChannelLab/>

Proper Citation: IonChannelLab (RRID:SCR_014762)

Description: Software for kinetic modeling of ion channels which operates on Windows XP or Windows Vista.

Resource Type: simulation software, software application, software resource

Keywords: simulation software, kinetic modeling, ion channel, electrophysiology

Funding: CONACyT Mexico 79897;
CONACyT Mexico 105457;
NINDS R01 NS032337

Availability: Available for download

Resource Name: IonChannelLab

Resource ID: SCR_014762

Record Creation Time: 20220129T080322+0000

Record Last Update: 20260829T182503+0000

Ratings and Alerts

No rating or validation information has been found for IonChannelLab.

No alerts have been found for IonChannelLab.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Wang Y, et al. (2025) Graded activation of mutant K41C-KCNE1:KCNQ1 channel complexes by mefenamic acid. Channels (Austin, Tex.), 19(1), 2539494.

Fedida D, et al. (2024) Evaluating sequential and allosteric activation models in IKs channels with mutated voltage sensors. The Journal of general physiology, 156(3).

Yang E, et al. (2018) Propofol inhibits prokaryotic voltage-gated Na⁺ channels by promoting activation-coupled inactivation. The Journal of general physiology, 150(9), 1299.

Yang E, et al. (2018) Electrophysiological Analysis of Voltage-Gated Ion Channel Modulation by General Anesthetics. Methods in enzymology, 602, 339.

Sánchez-Rodríguez JE, et al. (2012) Sequential interaction of chloride and proton ions with the fast gate steer the voltage-dependent gating in ClC-2 chloride channels. The Journal of physiology, 590(17), 4239.