

# Hodgkin-Huxley Squid Axon Model, 1952

**v. 1.3**

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## 1. Description

Based on a number of experiments in giant squid axons, A.L. Hodgkin and A.F. Huxley constructed a first quantitative model of the electrical excitability of neurons. This model describes three ionic currents: fast inward sodium current, time-dependent outward potassium current, and time-independent leak current.

## 2. References

- A Quantitative Description of Membrane Current and its Application to Conduction and Excitation in Nerve, A. L. Hodgkin and A. F. Huxley, 1952, *Journal of Physiology*, 117, 500-544.

## 3. Download

This model is part of the stable CESE distribution.

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