

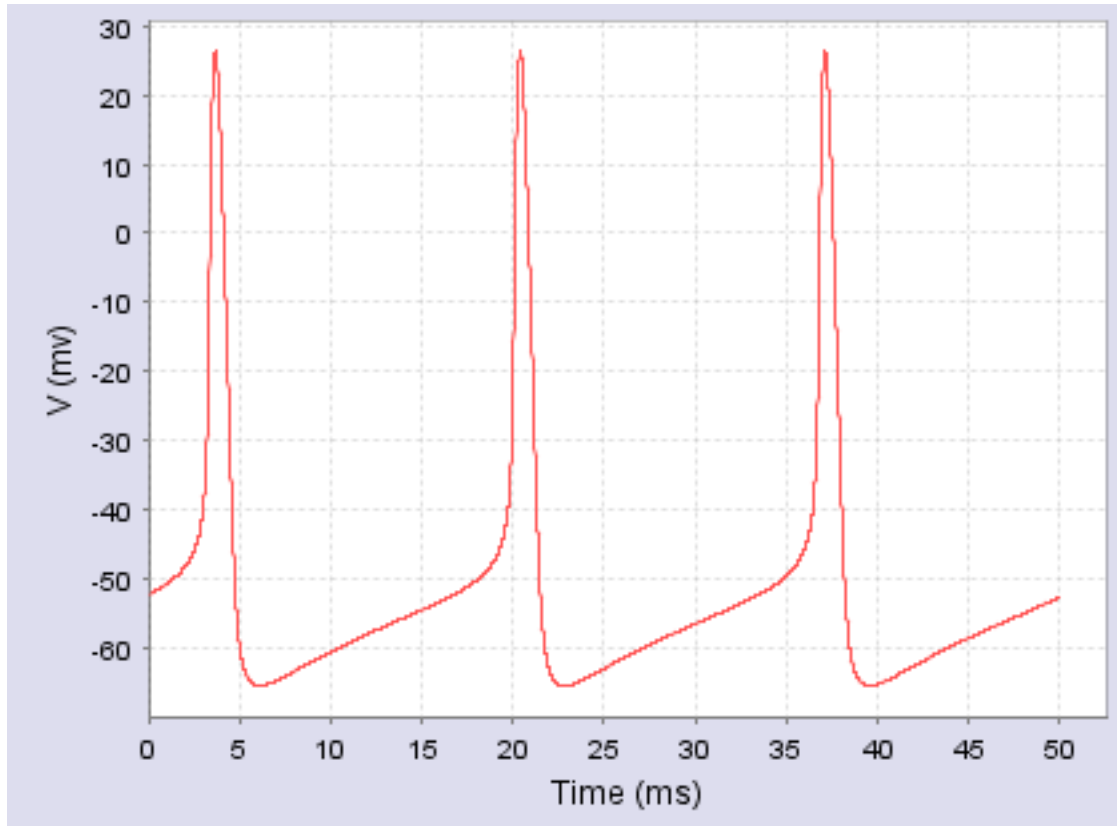
# **Salamandra Retina Ganglion FM97-ESM**

**Enhanced Simucore Model Based Upon: Fohlmeister, Miller  
Model of Action Potentials in Salamandra Retina Ganglion Cells,  
1997; v. 2.0**

## **Table of contents**

1 Description.....	2
2 References.....	2
3 Ordering.....	3

## 1 Description



This model simulates in retinal ganglion cells. It uses HH formalism and is capable of producing realistic firing properties in response to the constant depolarization. This is a single-compartment version of the model.

Abstract excerpt: *"Experimental efforts were guided by computer simulation studies of an excitability model consisting of five voltage- or ion-gated channels, which were identified from earlier voltage-clamp data. The ion channels include sodium, calcium, and three types of potassium channels, namely the A type (IK,A), Ca-activated potassium (IK,Ca), and the delayed rectifier (IK). A leakage channel was included to preserve input resistance continuity between model and experiment."*

## 2 References

- Fohlmeister JF, Miller RF.  
Impulse encoding mechanisms of ganglion cells in the tiger salamander retina.  
J Neurophysiol. 1997 Oct;78(4):1935-47.  
PMID: [9325362](https://pubmed.ncbi.nlm.nih.gov/9325362/)

### **3 Ordering**

- [Order this model](#) or [request further information](#).