

Neuron Function

How does a signal travel across and between neurons?

Why?

Just as the coaxial cables that run down your street or through your house carry television and Internet signals, the job of a neuron is to move an electrical signal from one place to another in order to send sensory messages throughout the body. In a previous activity you saw how a membrane potential is formed both at rest and during an inflow of ions. In this activity you will explore how changes in membrane potentials can propagate a signal down the axon of a neuron.

- Which of the gated embedded proteins in Model 1 allow sodium ions (O) through the membrane?
Gates A, B, D, and F allow sodium ions through the membrane.
- Which of the gated embedded proteins in Model 1 allow potassium ions (Δ) through the membrane?
Gates C, E, and G allow potassium ions through the membrane.
- The neuron illustrated in Model 1 has received a signal from either a sensory cell (taste bud, skin cell, retinal cell, etc.) or from another neuron. What evidence do you find in diagram 1 of the model that indicates a signal has been received?
A signal ligand has bound to the ligand-gated embedded protein and the gate has opened.
- In diagram 2 of Model 1, gated embedded protein B has opened. Was this opening triggered by the arrival of a signal ligand? If no, propose an alternate stimulus that might have triggered the gate to open.
No, diagram 2 does not show a ligand bound to embedded protein B. The gate may have opened because of the change in membrane potential from the flood of ions nearby.
- Consider Model 1.
 - When a signal moves down the axon of the neuron, which direction do sodium ions move through the voltage-gated embedded proteins?
Sodium ions move into the cell when the sodium gates are opened.
 - What does the movement of sodium ions across the membrane do to the membrane potential near the open embedded protein?
The membrane potential increases (gets more positive) as the sodium ions move into the cell.
- Consider Model 1.
 - When a signal moves through the axon of the neuron, which direction do potassium ions move through the voltage-gated embedded proteins?
Potassium ions move out of the cell when the potassium gates are opened.
 - What does the movement of potassium ions across the membrane do to the membrane potential near the open embedded protein?
The membrane potential decreases (gets more negative) as the potassium ions move out of the cell.

Pogil Neuron Function Solutions

Christian Drosten

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Pogil Neuron Function Solutions:

On Periodic Solutions of a Two-neuron Network System with Sigmoidal Activation Functions Ting-hui Yang, 2006

Neuronal Adaptation Theory Hans-Otto Carmesin, 1996 **A Stochastic Model of Neuron Function and Its**

Application to Subthreshold Processes in the Limulus Photoreceptor and Frog Neuromuscular Junction Alan Robert Arnold, 1963 *Neural Cell Behavior and Fuzzy Logic* Uziel Sandler, Lev Tsitolovsky, 2008-09-23 This book covers at an

advanced level the most fundamental ideas concepts and methods in the field of applications of fuzzy logic to the study of neural cell behavior Motivation and awareness are examined from a physiological and biochemical perspective illustrating fuzzy mechanisms of complex systems *The Cell Surface and Neuronal Function* Carl W. Cotman, George Poste, Garth L.

Nicolson, 1980 *Neurons: A Mathematical Ignition* Masayoshi Hata, 2014-09-16 This unique volume presents a fruitful and beautiful mathematical world hidden in Caianiello's neuronal equations which describe the instantaneous behavior of a model of a brain or thinking machine The detailed analysis from a viewpoint of dynamical systems even in a single neuron case enables us to obtain amazingly good rational approximations to the Hecke Mahler series with two variables Some interesting numerical applications of our rational approximations are also discussed This book is fundamentally self contained and many topics required in it are explained from the beginning Each chapter contains a number of instructive and mostly original exercises at various levels **Neuron Structure-function Correspondence as Revealed by Biological Scaling Theory**

Paheli Desai-Chowdhry, 2023 Neurons are connected by complex branching processes that collectively process information for organisms to respond to their environment Classifying neurons according to differences in structure or function is a fundamental piece of neuroscience Here by constructing new biophysical theory and testing against our empirical measures of branching structure we establish a correspondence between neuron structure and function as mediated by principles such as time or power minimization for information processing as well as spatial constraints for forming connections Based on these principles we use Lagrange multipliers to predict scaling ratios for axon and dendrite sizes across branching levels We test our predictions for radius scale factors against those extracted from images measured for species that range from insects to whales Notably our findings reveal that the branching of axons and peripheral nervous system neurons is mainly determined by time minimization while dendritic branching is mainly determined by power minimization Further comparison of different dendritic cell types reveals that Purkinje cell dendrite branching is constrained by material costs while motoneuron dendrite branching is constrained by conduction time delay We extend this model to incorporate asymmetric branching where there are multiple different paths from the soma to the synapses and thus multiple interpretations of conduction time delay one considers the optimal path and the other considers the sum of all possible paths leading to different predictions We find that the data for motoneurons show a distinction between the asymmetric and symmetric branching junctions corresponding to predictions using different interpretations of the time delay constraint Moreover the

more asymmetric branching junctions are localized near the synapses indicating that different functional principles affect the structure at different regions of the cell Finally we use machine learning methods to classify cell types using functionally relevant structural parameters derived from our model Incorporating branching level as a feature in classification in addition to parameters related to information flow improves performance across methods suggesting that information flow drives localized differences in morphology Future directions of this work include estimating specific parameters related to functional tradeoffs and myelination using numerical optimization and analyzing changes across stages of development

Form Versus Function: Theory and Models for Neuronal Substrates Mihai Alexandru Petrovici, 2016-07-19 This thesis addresses one of the most fundamental challenges for modern science how can the brain as a network of neurons process information how can it create and store internal models of our world and how can it infer conclusions from ambiguous data The author addresses these questions with the rigorous language of mathematics and theoretical physics an approach that requires a high degree of abstraction to transfer results of wet lab biology to formal models The thesis starts with an in depth description of the state of the art in theoretical neuroscience which it subsequently uses as a basis to develop several new and original ideas Throughout the text the author connects the form and function of neuronal networks This is done in order to achieve functional performance of biological brains by transferring their form to synthetic electronics substrates an approach referred to as neuromorphic computing The obvious aspect that this transfer can never be perfect but necessarily leads to performance differences is substantiated and explored in detail The author also introduces a novel interpretation of the firing activity of neurons He proposes a probabilistic interpretation of this activity and shows by means of formal derivations that stochastic neurons can sample from internally stored probability distributions This is corroborated by the author's recent findings which confirm that biological features like the high conductance state of networks enable this mechanism The author goes on to show that neural sampling can be implemented on synthetic neuromorphic circuits paving the way for future applications in machine learning and cognitive computing for example as energy efficient implementations of deep learning networks The thesis offers an essential resource for newcomers to the field and an inspiration for scientists working in theoretical neuroscience and the future of computing

Basic Concepts of Neuronal Function Don L.

Jewett, 1984 *Techniques for Obtaining Analytical Solutions for Rall's Model Neuron* G. W. Bluman, Henry C.

Tuckwell, 1986 *Reliable Arithmetic Circuit Design Inspired by SNP Systems* Pei An, 2013 ABSTRACT Developing new non traditional device models is gaining popularity as the silicon based electrical device approaches its limitation when it scales down Membrane systems also called P systems are a new class of biological computation model inspired by the way cells process chemical signals Spiking Neural P systems SNP systems a certain kind of membrane systems is inspired by the way the neurons in brain interact using electrical spikes Compared to the traditional Boolean logic SNP systems not only perform similar functions but also provide a more promising solution for reliable computation Two basic neuron types Low Pass LP

neurons and High Pass HP neurons are introduced These two basic types of neurons are capable to build an arbitrary SNP neuron This leads to the conclusion that these two basic neuron types are Turing complete since SNP systems has been proved Turing complete These two basic types of neurons are further used as the elements to construct general purpose arithmetic circuits such as adder subtractor and comparator In this thesis erroneous behaviors of neurons are discussed Transmission error spike loss is proved to be equivalent to threshold error which makes threshold error discussion more universal To improve the reliability a new structure called motif is proposed Compared to Triple Modular Redundancy improvement motif design presents its efficiency and effectiveness in both single neuron and arithmetic circuit analysis DRAM based CMOS circuits are used to implement the two basic types of neurons Functionality of basic type neurons is proved using the SPICE simulations The motif improved adder and the comparator as compared to conventional Boolean logic design are much more reliable with lower leakage and smaller silicon area This leads to the conclusion that SNP system could provide a more promising solution for reliable computation than the conventional Boolean logic

Neurons in Action 2 John W. Moore, Ann E. Stuart, 2011-01-26 *Neurons in Action 2* is the second version of a unique software learning tool that combines hyperlinked text with NEURON simulations of laboratory experiments in neurophysiology Version 2 features nine new tutorials introducing new channel types single channel simulations and a redesigned interface *Neurons in Action* s moving graphs provide insight into nerve function that is simply not possible with conventional static text and figure presentations Students discover how changing parameters such as neuronal geometry ion concentrations ion channel densities and degree of myelination affect the generation of action potentials synaptic potentials and the spread or propagation of voltages within a neuron For instructors minimovies of NEURON simulations are provided for use in lectures

SYSTEM REQUIREMENTS Windows Windows XP Vista 7 or 8 Current version of Firefox Mac Mac OS X 10.6 10.11

Function and Mechanism of Polarized Targeting of Neuronal Membrane Proteins Joshua A. Barry, 2013 Abstract The ability of a neuron to survive and function properly requires many factors including a multitude of proteins Membrane proteins are a specific class that are expressed within the plasma membrane and function in a variety of roles from action potential firing to neurotransmitter reuptake To perform this variety of functions requires proper localization of these proteins however the exact functional relevance and underlying mechanisms that regulates this targeting is still an area of intense research In this thesis I examined the functional role that NgCAM had on inducing bundling of axons or dendrites via regulation by domain deletion or phosphorylation I also examined how the polarized targeting of the splice variants of Kv3.1 could affect the maximal spiking frequency of neurons Then I explored how Kv3.1 could induce clustering and activation of its motor kinesin 1 KIF5 Finally I looked at the role that metal binding sites specifically zinc plays on the localization and activity of Kv3.1 My various areas of research are all linked by the shared idea that the proper localization of membrane proteins can regulate the function of a neuron

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