
Neuron Structure and Function POGIL Quiz

list the parts of the neuron (be able to label them too) - ✓✓

cell body/soma

cell nucleus

dendrites

axon

synapse

what are the parts of a neuron membrane? - ✓✓ phospholipid layer, embedded proteins, sodium/potassium pump, K^+ , Na^+ , and ATP/ADP

which side of the membrane has more sodium ions when the neuron is at rest? - ✓✓ the outside of the cell

why cant sodium ions cross the membrane without the use of a protein channel? - ✓✓ the sodium ions are polar whereas the phospholipid layer is nonpolar. the protein channel is surrounded by polar groups that allow the sodium ions to move through.

which direction should the sodium ions flow naturally if a channel is provided? - ✓✓ into the cell

Neuron Function Pogil Packet

L Cohen



Neuron Function Pogil Packet:

Basic Concepts of Neuronal Function Don L. Jewett, Martin D. Rayner, 1984 **Photochemical Control of Neuronal Activity** Ivan Tochitsky, 2013

Photochemical control of neuronal activity methods and clinical application by Ivan Tochitsky Doctor of Philosophy in Molecular and Cell Biology University of California Berkeley Professor Richard Kramer

Chair Mammalian nervous systems are incredibly complex with almost 100 billion neurons making up the human brain. Neurons in the brain primarily communicate with one another in one of two ways: electrically via the flow of ions across the cell membrane or chemically by releasing and detecting a variety of signaling molecules. In order to understand the function of the nervous system, we need to be able to manipulate it with high spatial and temporal precision. Conventional electrical or chemical stimuli do not allow for such precise control. Thus, a new and orthogonal stimulus modality had to be utilized in order to facilitate the study of the nervous system. The emerging field of optogenetics uses light as such a stimulus since light can be delivered only to a small part of the nervous system or even a single neuron and the illumination can be controlled with millisecond time resolution. Optogenetic techniques involve the expression of light-sensitive proteins from microbes in genetically targeted populations of neurons, rendering those neurons sensitive to light. Recent advances in optogenetics have greatly advanced our understanding of the function of the nervous system both in healthy organisms and in the context of disease. Optogenetics is a powerful technique for investigating neural networks, but this approach primarily studies the function of the nervous system at a system rather than molecular level. The vast complexity of the human brain is created not only by the large number of individual neurons and the intricate connections between them but also by the dizzying variety of proteins found in the cell membranes of these neurons. These proteins sense and respond to the release of chemical signaling molecules from neighboring cells or changes in ion concentrations that alter the cell's membrane potential, allowing for the generation and propagation of electrical signals. We have combined the powers of synthetic chemistry and genetics to develop novel optopharmacological or optochemical genetic methods which enable precise optical control of neuronal function at the molecular level. These strategies involve the generation of light-sensitive photoswitch molecules that selectively target a population of either genetically engineered or endogenous membrane proteins, including receptors sensing chemical stimuli or ion channels responding to electrical potential changes in the cell. The addition of a photoswitch compound to a neuron expressing the target protein makes that protein and by extension the neuron sensitive to light. We first applied this strategy to generate light-regulated neuronal nicotinic acetylcholine receptors, which are a group of proteins that respond to the chemical neurotransmitter acetylcholine. These receptors modulate the activity of other neurons in different parts of the brain and are also sensitive to nicotine, an addictive chemical found in tobacco products. The function of acetylcholine receptors in the brain and their role in nicotine addiction, neuropsychiatric and neurodegenerative disorders is not fully understood in large part because it is quite difficult to chemically manipulate individual receptors without affecting

others Making light sensitive genetically targeted acetylcholine receptors should thus greatly advance our understanding of those receptors function The main rationale for making proteins or neurons light sensitive is to facilitate the study of the healthy nervous system as well as its malfunction in disease There are however several human diseases where optical methods for controlling neuronal activity could directly provide a clinical benefit Degenerative blinding diseases such as retinitis pigmentosa or age related macular degeneration leave the retinas of affected patients either partly or completely insensitive to light by causing the death of light detecting photoreceptor cells in the eye Light responses can be restored to a blind retina by making some or all of the remaining retinal neurons sensitive to light This can be achieved via the expression of light sensitive microbial opsins or engineered receptors in retinal neurons that are not normally light sensitive Both of these approaches have restored some visual perception to blind mice suffering from retinitis pigmentosa However in order to use either optogenetic or optochemical genetic tools in the clinic the mutant proteins must be artificially expressed in the patient s retina which requires the use of viral gene therapy Gene therapy has potential health risks so we decided to develop a treatment for blinding diseases that would only involve a light sensitive chemical without the need for gene therapy or invasive surgery To that end we have developed an optopharmacological therapy for vision restoration by creating photoswitch molecules that block and unblock endogenous voltage gated ion channels in a light dependent manner allowing us to control almost any neuron with light The first photoswitch tested called AAQ restored electrical retinal light responses the pupillary light reflex as well as other simple visual behaviors in blind mice In order to optimize this treatment for clinical use we generated a compound called DENAQ with improved light sensitivity and persistence in the eye which responds to broad spectrum white light similar to what people encounter in natural visual scenes Furthermore DENAQ acts selectively on retinas suffering from photoreceptor cell death but leaves healthy retinas unaffected This selectivity raises the possibility that we may be able to treat not only patients who are completely blind but also those suffering from partial vision loss by restoring light sensitivity only to the parts of the retina experiencing photoreceptor degeneration The promising preliminary results from animal studies suggest that our optopharmacological strategy for vision restoration may eventually be used in the clinic in addition to helping researchers understand the function of the nervous system in its normal state and in disease

Advancing Our Understanding of Structure and Function in the Brain: Developing Novel Approaches for Network Inference and Emergent Phenomena Chris G. Antonopoulos,Nicolás Rubido,Antonio Batista,Murilo S. Baptista,2021-02-09

Basic Concepts of Neuronal Function Don L. Jewett,1984 **All-Optical Methods to Study Neuronal Function** Eirini Papagiakoumou,2023-02-20 This open access volume provides an overview of the latest methods used to study neuronal function with all optical experimental approaches where light is used for both stimulation and monitoring of neuronal activity The chapters in this book cover topics over a broad range from fundamental background information in both physiology and optics in the context of all optical neurophysiology experiments to the design principles and hardware

implementation of optical methods used for photoactivation and imaging In the Neuromethods series style chapters include the kind of detail and key advice from the specialists needed to get successful results in your laboratory Comprehensive and cutting edge All Optical Methods to Study Neuronal Function is a valuable resource for researchers in various disciplines such as physics engineering and neuroscience This book will serve as a guide to establish useful references for groups starting out in this field and provide insight on the optical systems actuators and sensors This is an open access book

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

Macromolecules and the Function of the Neuron A. Lodin, P. Rose, 1984-03 *Trophic Function of the Neuron , 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

Light-Controlled Modulation and Analysis of Neuronal Functions Piotr Bregestovski, Carlo Matera, 2023-01-27 Contemporary research has been enriched by new directions in which light plays a key role as a tool for the modulation of cellular activity and the invasive monitoring of intracellular ions and other components The progress in molecular biology imaging techniques and other modern technologies has led to the emergence of three main areas in which light is the main tool optogenetics photopharmacology and optosensorics The main advantages of these approaches are the possibilities to investigate the functions of cells modulate the activity of ion channels synaptic

transmission and neuronal circuits measure concentrations of ions and other cellular components and even control the behaviour of organisms Due to the development of these powerful molecular and genetic tools our understanding of the mechanisms underlying the functioning of the nervous system has greatly advanced This reprint is intended to highlight the latest advances in these areas with a primary focus on light based analysis and control of neuronal functions

The Molecules Behind Neuronal Function Mario Mikula,2003 *Netrin-1 Modulation of Hippocampal Neuron Structure and Function* Ian Beamish,2018 Axon guidance cues such as netrin 1 are known to be important for the development of neural circuits however little is known regarding possible roles in adulthood Recent work from our lab has demonstrated that the netrin 1 receptor deleted in colorectal cancer DCC regulates the structure and function of mature synapses in the mammalian brain Here we demonstrate that netrin 1 protein is readily detectable in the adult brain and is necessary for the expression of long term potentiation LTP at the Schaffer collateral hippocampal synapse Next using genetic biochemical and imaging approaches we show that netrin 1 is secreted from cultured hippocampal neurons in an activity dependent manner Bath application of netrin 1 results in an increase in intracellular calcium levels within hippocampal neurons and leads to a dramatic potentiation of synaptic responses at the CA3 CA1 synapse Classic long term synaptic potentiation LTP induces phosphorylation of GluA1 by PKC and CaMKII at S831 resulting in increased channel conductance and by PKA at S845 that can promote trafficking of GluA1 to synaptic sites Here we show that netrin 1 induced LTP depends on exocytosis of GluA1 containing AMPARs Moreover we show elevated GluA1 levels are accompanied by significant increases in phosphorylation of both S831 and S845 sites as well as increases in phospho CaMKII alpha levels Lastly we demonstrate that exogenous application of netrin 1 specifically increases the volume of thin type dendritic spines in organotypic hippocampal cultures These results point to a critical role for activity dependent netrin 1 release in the regulation of synaptic transmission and plasticity via netrin 1 mediated modulation of serine residues on GluA1

Protein Synthesis and Neuronal Function in Single, Identified Neurons of Aplysia Californica Yoke Peng Loh,1973 **Building Brains** David J. Price,Andrew P. Jarman,John O. Mason,Peter C. Kind,2017-09-25 Provides a highly visual readily accessible introduction to the main events that occur during neural development and their mechanisms Building Brains An Introduction to Neural Development 2nd Edition describes how brains construct themselves from simple beginnings in the early embryo to become the most complex living structures on the planet It explains how cells first become neural how their proliferation is controlled what regulates the types of neural cells they become how neurons connect to each other how these connections are later refined under the influence of neural activity and why some neurons normally die This student friendly guide stresses and justifies the generally held belief that a greater knowledge of how nervous systems construct themselves will help us find new ways of treating diseases of the nervous system that are thought to originate from faulty development such as autism spectrum disorders epilepsy and schizophrenia A concise illustrated guide focusing on core elements and emphasizing common

principles of developmental mechanisms supplemented by suggestions for further reading Text boxes provide detail on major advances issues of particular uncertainty or controversy and examples of human diseases that result from abnormal development Introduces the methods for studying neural development allowing the reader to understand the main evidence underlying research advances Offers a balanced mammalian non mammalian perspective and emphasizes mechanisms that are conserved across species drawing on examples from model organisms like the fruit fly nematode worm frog zebrafish chick mouse and human Associated Website includes all the figures from the textbook and explanatory movies Filled with full color artwork that reinforces important concepts an extensive glossary and definitions that help readers from different backgrounds and chapter summaries that stress important points and aid revision Building Brains An Introduction to Neural Development 2nd Edition is perfect for undergraduate students and postgraduates who may not have a background in neuroscience and or molecular genetics This elegant book ranges with ease and authority over the vast field of developmental neuroscience This excellent textbook should be on the shelf of every neuroscientist as well as on the reading list of every neuroscience student Sir Colin Blakemore Oxford University With an extensive use of clear and colorful illustrations this book makes accessible to undergraduates the beauty and complexity of neural development The book fills a void in undergraduate neuroscience curricula Professor Mark Bear Picower Institute MIT Highly Commended British Medical Association Medical Book Awards 2012 Published with the New York Academy of Sciences **The Neuron and the Glial Cell** Santiago Ramón y Cajal, 1984 **Trophic Functions of the Neuron** , 1974 **Special Issue on Optogenetic Probes** Ryohei Yasuda, 2008 **Biochemical Studies of Neurons and Glia During Learning and Different Functional Conditions** H. Hyden, GÖTEBORG UNIV (Sweden) INST OF NEUROBIOLOGY., 1967 The studies represent a study of chemical basis for learning and memory Mental processes are not easily amenable to experimental attack and any chemical approach is even more difficult By ultramicro techniques it was shown that nucleoprotein production is linked with neuronal functions Studies of the incorporation of radioactively labelled precursors into the nerve cells of the second vestibular neuron during the course of the learning process were made Another series of analyses was made in rats subjected to vestibular stimulation to increase the neuronal function Author *Modulation of Neuronal Functions by Neuropeptide Y and Galanin* Chong Chia Lee, 2000 *Function-form Relations During Development of Neuronal Networks* Einat Fuchs, 2008

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