



Squid giant synapse

# Squid Giant Synapse

**Rami Rahamimoff, Bernard Katz**



## **Squid Giant Synapse:**

The Squid Giant Synapse Rodolfo Riascos Llinás,1999 The squid giant synapse is the single most important model for investigating the transmitter release mechanism in chemical junctions This unique book by a leading expert in the field gives a concise overview of all that has been learned about synaptic transmission in this superb model system It covers in detail the biophysics of the voltage dependent calcium currents calcium concentration microdomains and much of the molecular basis for the triggering of the secretory event Ideal for graduate and undergraduate courses the book includes PC and Macintosh versions of two programs for simulating and manipulating any aspect of synaptic transmission One program is a modeling tool designed for working neuroscientists and the other teaches the basic principles of synaptic transmission by allowing students to alter the parameters essentially without limits and see the effects on the action potential over time Anyone studying this central topic of neuroscience will find this book an invaluable resource

**Measurement and Analysis of Ionic Currents at the Squid Giant Synapse ...** Ronald Wayne Joyner,1973 **Transmission in Squid Giant Synapse**

Sanford M. Simon,1984 *The Squid Giant Synapse* Rodolfo Riascos Llinas,1999 *Squid as Experimental Animals* W.J., Jr. Adelman,J.M. Arnold,D.L. Gilbert,2013-06-29 The predecessor to this book was A Guide to the Laboratory Use of the Squid *Loligo pealei* published by the Marine Biological Laboratory Woods Hole Massachusetts in 1974 The revision of this long out of date guide with the approval of the Marine Biological Laboratory is an attempt to introduce students and researchers to the cephalopods and particularly the squid as an object of biological research Therefore we have decided to expand on its original theme which was to present important practical aspects for using the squid as experimental animals There are twenty two chapters instead of the original eight The material in the original eight chapters has been completely revised Since more than one method can be used for accomplishing a given task some duplication of methods was considered desirable in the various chapters Thus the methodology can be chosen which is best suited for each reader s requirements Each subject also contains a mini review which can serve as an introduction to the various topics Thus the volume is not just a laboratory manual but can also be used as an introduction to squid biology The book is intended for laboratory technicians advanced undergraduate students graduate students researchers and all others who want to learn the purpose methods and techniques of using squid as experimental animals This is the reason why the name has been changed to its present title Preceding the chapters is a list of many of the abbreviations prefixes and suffixes used in this volume

**Molecular Mechanisms of Neuronal Responsiveness** Yigal H. Ehrlich,Robert H. Lenox,Elizabeth Kornecki,William O.

Berry,2013-03-13 The interaction of neurotransmitters neuromodulators and neuroactive drugs with receptors localized at the cell surface initiates a chain of molecular events leading to integrated neuronal responses to the triggering stimuli Major advancements in the characterization and isolation of receptor molecules have answered many questions regarding the nature of the elements that determine the specificity in these interactions At the same time recent studies have provided

evidence that delicate regulation by intracellular enzymatic systems determines the efficiency of the stimulus response coupling process mediates the interaction between receptors operates in feedback control mechanisms and transduces signals from the receptors to various effector sites in a highly coordinated fashion These studies are at the focus of the present volume which is an outcome of a symposium held at the University of Vermont College of Medicine on March 21-23 1986 in conjunction with the seventeenth annual meeting of the American Society for Neurochemistry The symposium has demonstrated clearly that the concerted efforts of investigators in neurophysiology biochemistry pharmacology cell biology molecular genetics neurology and psychiatry are required to achieve better understanding of the processes underlying neuronal responsiveness This volume includes contributions provided by prominent investigators in all these research areas We hope that the readers will find here a useful source of information and ideas for stimulating further studies which may serve to narrow the gap between basic neuroscience research and its clinical implications

Regulatory Mechanisms of Synaptic Transmission R. Tapia, 2012-12-06 This book which originated in the presentations of a symposium sponsored by the Universidad Nacional Autonoma de Mexico held in Mexico City on April 14-16 1980 represents an attempt to analyze some of the most relevant aspects of synaptic transmission This topic was chosen on the strong belief that the progress of the neurosciences depends to a great extent on the understanding of the basic mechanisms of synaptic function Rather than selecting only a specific approach or speciality the book intends to cover this field in a multidisciplinary way This means that neurochemical neurophysiological and morphological studies are mingled throughout the book which hopefully will help the reader to integrate the different faces of the same problem Across the book the presynaptic component of synaptic transmission and its regulation is stressed much more than the postsynaptic phenomena Although this might be a limitation it has the advantage of increasing the focus of the book on a series of events which are gaining importance and interest every day

**Synapse, Neuron, Brain** A.C. Damask, 2012-12-02 Synapse Neuron Brain the third and last volume in the series Medical Physics focuses on neurons and their interactions Comprised of seven chapters regarding the brain's synapses and nerves this volume concludes through the presentation of medical physics and its applications An introductory chapter of this volume provides the necessary basic concepts and theories needed in the understanding of the book This is followed by a discussion on the brain and its interconnections with the spinal cord Chapter 3 focuses on the importance of evoked potentials as a diagnostic tool for the sensory organ and the neural processing of the stimuli Chemical and electrical properties of synapses are also given emphasis Other topics covered in this volume include the rally theory and neuronal integration membrane noise at synaptic junctions and new techniques on brain studies autoradiography positron annihilation and nuclear magnetic resonance As with the other volumes this also caters to persons in various disciplines such as medicine physiology physics and biology

*The History of Neuroscience In Autobiography* Larry R. Squire, 2006-04-11 This fifth book of autobiographical essays by distinguished senior neuroscientists includes contributions by Samuel H Barondes Joseph E

Bogen Alan Cowey David R Curtis Ennio De Renzi John S Edwards Mitchell Glickstein Carlton C Hunt Lynn T Landmesser Rodolfo Llinas Alan Peters Martin Raff Wilfred Rall Mark R Rosenzweig Arnold Bernard Scheibel and Gerald Westheimer This collection of fascinating essays should inform and inspire students and working scientists alike The general reader interested in science may also find the essays absorbing as they are essentially human stories about commitment and the pursuit of knowledge

**Mechanisms of Synaptic Transmission** Joseph D. Robinson, 2001-05-17 Synaptic transmission plays a central role in the nervous system as the mechanism that allows for chemical and electrical communication between cells and thus connects discrete elements into the functioning whole This is a broad account of anatomical biochemical embryological medical pathological pharmacological and physiological studies on synaptic transmission during the hundred years beginning in 1890 During this century the process of synaptic transmission came to be recognized not only as the most fundamental neurophysiological process but also as a seat of pathological changes and as the predominant site of action for drugs used to treat a wide range of psychiatric and neurological disorders At the same time research from these various disciplines was transformed into a new and unifying field neuroscience The course of these investigations reveals ingenious experiments powerful new techniques and imaginative insights The author describes broadly who did what when where and how and in cases where it is apparent why and uses experimental results and interpretations to display the evolutionary course to our current understanding of how nerve cells communicate the basic principle of neural functioning The book will be of interest to basic and clinical neuroscientists pharmacologists and physiologists to historians and philosophers of the life sciences and medicine and to their respective students

The Peripheral Nervous System John Hubbard, 2012-12-06 The peripheral nervous system is usually defined as the cranial nerves spinal nerves and peripheral ganglia which lie outside the brain and spinal cord To describe the structure and function of this system in one book may have been possible last century Today only a judicious selection is possible It may be fairly claimed that the title of this book is not misleading for in keeping the text within bounds only accounts of olfaction vision audition and vestibular function have been omitted and as popularly understood these topics fall into the category of special senses This book contains a comprehensive treatment of the structure and function of peripheral nerves including axoplasmic flow and trophic functions junctional regions in the autonomic and somatic divisions of the peripheral nervous system receptors in skin tongue and deeper tissues and the integrative role of ganglia It is thus a handbook of the peripheral nervous system as it is usually understood for teaching purposes The convenience of having this material inside one set of covers is already proven for my colleagues were borrowing parts of the text even while the book was in manuscript It is my belief that lecturers will find here the information they need while graduate students will be able to get a sound yet easily read account of results of research in their area

JOHN 1 HUBBARD vii Contents SECTION I PERIPHERAL NERVE Chapter 1 Peripheral Nerve Structure 3 Henry deF Webster 3 1 Introduction **Calcium, Neuronal Function and Transmitter Release** Rami Rahamimoff, Bernard

Katz,2012-12-06 This symposium entitled Calcium Neuronal Function and Transmitter Release was in the framework of the regional meeting of the International Union of Physiological Sciences that took place in Jerusalem between August 26-31 1984 The symposium dealt with the role of calcium ions in regulation of a large number of important processes in modern neurobiology from molecular and cellular points of view In this context we consider heart and most cells as honorary neurons The meeting was comprised of lectures and quite intense discussions We hope that the transcription of the discussions which follow the articles will give the reader a feeling of the intense but pleasant atmosphere that pervaded during this symposium It is our pleasure to thank Mrs Miriam Silber the assistant editor of this book for her hard work in transcribing the discussions retyping large portions of the book and getting the approval of the authors We express our thanks to Dr Halina Meiri and Dr Simona Ginsburg for their editorial assistance The unfailing help of Ms Rachel Klein and Ms Shoshana Wineberg is greatly appreciated xxvii

**SECTION 1 CALCIUM CHANNELS TRANSPORTERS CALCIUM REGULATED CHANNELS EFFECTS OF TEMPERATURE ON SINGLE CHANNEL AND WHOLE CELL Ca CURRENTS** A M BROWN D L KUNZE H D LUX AND D L WILSON

**INTRODUCTION** Calcium tail currents have a large fast component which is not detectable when the currents are turned on or activated from the completely rested state Brown et al 1983 **Cell Polarity and Subcellular RNA Localization**

Dietmar Richter,2012-11-03 Selective cytoplasmic organelle and protein targeting has long been thought to constitute the sole determinant of cell polarity and complexity This view has been changed however by the discovery of differential subcellular RNA distribution patterns Over the past decade it has become clear that selective mRNA sorting and translation contributes to an accumulation of cognate proteins at discrete cellular sites In this book various systems are discussed e.g. Xenopus oocytes mammalian brain invertebrate nervous system in terms of RNA trafficking RNA targeting sequences cis elements and RNA transporting proteins trans factors activity dependent translational regulation and the significance of the cytoskeleton for neuronal function and plasticity It also discusses nucleocytoplasmic export of mRNA and viral RNA as another example of subcellular RNA kinesis Physiology of Neurons

Anne Feltz,2020-03-25 Thanks to tremendous technical advances in molecular biology and cellular imaging after those in electrophysiology there is now a deep understanding of the physiology of nerve cells and their synaptic interconnections The complexity of the brain emerges from the communication and interaction between billions of these elements This book explores systematically and didactically the details of neuronal physiology covering membrane biophysics receptor physiology sensory transduction and synaptic transmission with its selective pharmacology Readers of the book will be fully equipped to understand the functions and possibilities of the key units of the brain's parallel computations Calcium and Cellular Metabolism

J.R. Sotelo,J.C. Benech,2013-06-29 When we began to organize the workshop Calcium and Cellular Metabolism Transport and Regulation the goal we had in mind was to put together the knowledge of 2 several specialists on Ca homeostasis with various examples of cellular metabolisms 2.2 such as protein synthesis regulated by Ca ions Regarding

the homeostasis of Ca ions we invited Ernesto Carafoli to write the first chapter as a general state of the art introductory review On the other hand the other chapters are the contribution of different specialists on membrane calcium transport mechanisms aiming to reunite at least in part the wide field of calcium homeostasis We roughly try to group chapters that share similar subjects The first group of chapters Chapters 2 to 6 are mainly related to calcium channels Thus Chapter 2 by Rodolfo Llimis et al describes a new concept related to the dimensions of the calcium action domain at the inner mouth of calcium channels in the squid giant synapse and its relationship to neurotransmitter release Chapter 3 by Martin Morad et al informs us about new ways of identifying and measuring by confocal microscopy in individual sites where calcium release occurs in ventricular myocytes In the same group Osvaldo Uchitel and Eleonora Katz classify and evaluate the variety of calcium channels at the neuromuscular junction in Chapter 4 Chapter 5 by Gustavo Brum et al *Eckert Animal Physiology* David J. Randall, Warren Burggren, Kathleen French, Roger Eckert, 2002 This classic animal physiology text focuses on comparative examples that illustrate the general principles of physiology at all levels of organisation from molecular mechanisms to regulated physiological systems to whole organisms in their environment This textbook is an authoritative and complete guide to the field of animal physiology which uses a threefold approach to teaching The Comparative Approach emphasises basic mechanisms but allows patterns of physiological function in different species to demonstrate how evolution creates diversity This approach encourages students to appreciate the underlying principles that govern physiological systems The Experimental Emphasis helps students to understand the process of scientific discovery and shows how our knowledge of physiology continually increases and finally the Integrative Approach presents information about specific physiological systems at all levels of organisation from molecular interactions to interactions between an organism and its environment n included **International Review of Cytology**, 1979-05-21 International Review of Cytology

**Conditioning** Charles Woody, 2013-04-17 I would like to thank all those who contributed to the success of this symposium and its proceedings by providing the material herein The purpose of the symposium was to examine current knowledge of the brain's function in supporting conditioned behavior The research of those assembled has led to much of this knowledge It is a pleasure to acknowledge the organizational help of Drs D Alkon D Cohen J Disterhoft T Thach R Thompson and L Voronin and also the UCLA Brain Research Institute the UCLA Mental Retardation Research Center and Dolores Squires who assisted faithfully in the administrative organization of the symposium Special thanks are also due the publisher and publishing editor James Busis for lending us their expertise in the preparation of camera ready material and its rapid publication C D Woody CONTENTS THE ROLE OF THE HIPPOCAMPUS IN THE ACQUISITION OF LEARNED BEHAVIOR Role of the Hippocampus in Reversal Learning of the Rabbit Nictitating Membrane Response 1 Theodore W Berger and William B Orr Long Term Modulation of Intrinsic Membrane Properties of Hippocampal Neurons 13 L S Benardo and D A Prince Visual and Auditory Cues Support Place Field Activity of Hippocampal Units in the Rat 37 Phillip J Best and Alvin J Hill

Hippocampal Plasticity and Excitatory Neurotransmitters 49 Carl W Cotman Graham E Fagg and Thomas H **Principles of Neurobiology** Liqun Luo, 2020-09-05 Principles of Neurobiology Second Edition presents the major concepts of neuroscience with an emphasis on how we know what we know The text is organized around a series of key experiments to illustrate how scientific progress is made and helps upper level undergraduate and graduate students discover the relevant primary literature Written by a single author in a clear and consistent writing style each topic builds in complexity from electrophysiology to molecular genetics to systems level in a highly integrative approach Students can fully engage with the content via thematically linked chapters and will be able to read the book in its entirety in a semester long course Principles of Neurobiology is accompanied by a rich package of online student and instructor resources including animations figures in PowerPoint and a Question Bank for adopting instructors **Neural Models of Plasticity** John H. Byrne, 2012-12-02 Neural Models of Plasticity Experimental and Theoretical Approaches focuses on the use of theoretical and empirical methods in investigating the role of neuronal plasticity in learning memory and complex brain functions It examines the neuromodulation in relation to associative learning and memory developmental assembly of various components of learning and memory cellular and molecular processes contributing to associative and non associative learning and higher order features of classical conditioning Organized into 19 chapters this volume begins with an overview of the central pathways mediating conditioning in the marine mollusk *Hermissenda* and the behavior modified by conditioning along with the role of neuromodulation in associative learning in this organism It then proceeds with a discussion of learning and memory in the marine mollusk *Aplysia* the Hebb rule for synaptic plasticity a drive reinforcement model of neuronal function for predicting classical conditioning phenomena and the relationship between olfactory processing and associative memory The reader is also introduced to a neural circuit for classical conditioning of the eyelid closure response molecular mechanisms and roles of long term depression in cerebellar function and functions of neuronal networks in the hippocampus and neocortex in memory The book concludes with a chapter on models of calcium regulation in neurons This book is a valuable resource for neurobiologists psychologists adaptive systems theorists and others working in the fields of anatomy physiology neurophysiology molecular biophysics chemistry biology and psychiatry



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