

PHARMACOLOGY OF CENTRAL SYNAPSES

V. V. ZAKUSOV



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The Pharmacology Of Synapses

Robert Malenka



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The Pharmacology of Synapses J. W. Phillis, 2013-10-22 The Pharmacology of Synapses details the advancements in the understanding of synaptic pharmacology. The book examines the development in various areas of synaptic pharmacology research. The text first covers the basic concepts of synaptic pharmacology and then proceeds to tackling the metabolism of acetylcholine. Next, the selection deals with monoamine in the central nervous system and neuromuscular transmission in vertebrates. The text also discusses the pharmacology of autonomic ganglia. Chapters 7 and 8 detail the pharmacological studies on neurons in the brain and spinal cord. The ninth chapter deals with the neuromuscular transmission in invertebrates, while the 10th chapter deals with drugs transmission and molluscan neurons. The book will be of great use to researchers and practitioners of pharmacology, neurology, biological psychology, and psychiatry. *Pharmacology of Central Synapses* V. V. Zakusov, 2013-10-22 Pharmacology of Central Synapses deals with the pharmacology of the central nervous system and the mode of action of neurotropic drugs based on their influence on synaptic transmission. The neuronal structure of the nervous system, the structure of the synapses, and the phenomena of electrochemical transmission are discussed in this context. The main propositions of the synaptic theory of the action of neurotropic drugs based on morphological, physiological, and biochemical findings form the conceptual basis of this book. Comprised of eight chapters, this book examines the effect of neurotropic drugs on the synaptic transmission in reflex projection and association commissural tracts. The specific effects of various narcotics, neuroleptics, tranquillizers, analgesics, antidepressants, and stimulants on synaptic transmission in various structures of the central nervous system and at its different levels are described. This text also considers the differences in the sensitivity to such drugs of various synapses and their influence on the selectivity of drug action. This book explains the influence of neurotropic drugs on such aspects of nervous activity as impulse summation after discharge and functional lability, central inhibition, and the neurochemical mechanisms, particularly those involving monoaminergic, cholinergic, serotonergic, and GABAergic components of synaptic transmission. The final chapter focuses on the effect of psychotropic drugs on behavior. This book will be helpful to scientists representing all the major areas of pharmacology, including clinical pharmacology and toxicology, as well as to internists, psychiatrists, neurologists, and anesthesiologists. Mechanisms of Synaptic Transmission, 2014-05-14 Mechanisms of Synaptic Transmission The Pharmacology of Synapses J. W. Phillis, 1974 **The Pharmacology of Synapses** John Whitfield Phillis, 1974 **General and Molecular Pharmacology** Francesco Clementi, Guido Fumagalli, 2015-07-01 With a focus on functional relationships between drugs and their targets, this book covers basic and general pharmacology from a cellular and molecular perspective with particular attention to the mechanisms of drug action, the fundamental basis for proper clinical use without neglecting clinical application, toxicology, and pharmacokinetics. Covers cell and molecular pharmacology, bringing together current research on regulation of drug targets at a level appropriate for advanced undergrad and graduate students. Discusses the relevance of pharmacokinetics.

and drug development for the clinical application of drugs Presents material from the perspective of drug targets and interaction the theoretical basis of drug action analysis and drug properties Focuses on structure function relationships of drug targets informing about their biochemical and physiologic functions and experimental and clinical pathways for drug discovery and development Has a companion website that offers a host of resources short additional chapters about methodology topics at the forefront of research and all figures and tables from the book The Physiology of Synapses John Carew Eccles,2013-10-22 The Physiology of Synapses covers the considerable advances in understanding the complex physiology of synapses This book is divided into 16 chapters that emphasize the mechanism of synaptic transmission The first chapters describe the structural and physiological features of chemically transmitting synapses The subsequent chapters deal with the excitatory postsynaptic responses to presynaptic impulse and the release of transmitter by presynaptic impulses These topics are followed by discussions of the impulse generation by the excitatory postsynaptic potential the postsynaptic electrical events produced by chemically transmitting inhibitory synapses the ionic mechanism generating the inhibitory postsynaptic potential The last chapters consider the mechanism of inhibitory transmitter substances pathways responsible for postsynaptic inhibitory action and the trophic and plastic properties of synapses This book will prove useful to physiologists neurologists and researchers Aspects of Synaptic Transmission T. W. Stone,1991 A collection of reviews on selected areas of synaptic transmission from neuroscientists in a number of areas of work in the nervous system and related disciplines Five areas are covered long term potentiation galanin autonomic opioids and 5 hydroxytryptamine *The Synaptic Organization of the Brain* Gordon M. Shepherd,2004 This is a thorough revision of the standard text on local circuits in the different regions of the brain In this fifth edition the results of the mouse and human genome projects are incorporated for the first time Also for the first time the reader is oriented to supporting neuroscience databases Among the new advances covered are 2 photon confocal laser microscopy of dendrites and dendritic spines biochemical analyses and dual patch and multielectrode recordings applied together with an increasing range of behavioral and gene targeting methods **The Dynamic Synapse** Josef T. Kittler,Stephen J. Moss,2006-03-27 Exploring the diverse tools and technologies used to study synaptic processes The Dynamic Synapse Molecular Methods in Ionotropic Receptor Biology delineates techniques methods and conceptual advances for studying neurotransmitter receptors and other synaptic proteins It describes a broad range of molecular biochemica *The Cholinergic Synapse* Victor P. Whittaker,2012-12-06 One of the most impressive works of scholarship in the field of experimental pharmacology has been the Heffter Heubner Handbuch der experimentellen Pharmakologie internationalized some years ago under the title Handbook of Experimental Pharmacology and kept up to date by a series of numbered Ergänzungen or supplementary volumes which have now replaced in importance the original Handbuch These volumes constitute a valuable and continuously up dated multi author review series of topics important in modern pharmacology and allied sciences The Editorial Board of the Handbook invited me 2 years ago to undertake as

subeditor the preparation of a new volume entitled *The Cholinergic Synapse* A previous volume in this series vol 15 *Cholinesterases and Anticholinesterase Agents* edited by GEORGE KOELLE was published in 1963 and was far wider in scope than its title suggested it was in fact an authoritative summing up of the whole subject of cholinergic function and still has some value today as an account of the state of the art as it was at that time Since then another excellent review of a specific cholinergic synapse has appeared in this series this was vol 42 *Neuromuscular Junction* edited by ELEANOR ZAIMIS and published in 1976 A third volume vol 53 *Pharmacology of Ganglionic Transmission* which appeared in 1980 and was edited by D A KHARKEVICH includes important aspects of autonomic cholinergic function

Encyclopedia of Neuroscience, Volume 1 Larry R. Squire, 2009-06-12 The *Encyclopedia of the Neuroscience* explores all areas of the discipline in its focused entries on a wide variety of topics in neurology neurosurgery psychiatry and other related areas of neuroscience Each article is written by an expert in that specific domain and peer reviewed by the advisory board before acceptance into the encyclopedia Each article contains a glossary introduction a reference section and cross references to other related encyclopedia articles Written at a level suitable for university undergraduates the breadth and depth of coverage will appeal beyond undergraduates to professionals and academics in related fields

Intercellular Communication in the Nervous System Robert Malenka, 2010-05-22 Intercellular communication is part of a complex system of communication that governs basic cellular activities and coordinates cell actions The ability of cells to perceive and correctly respond to their environment is the basis of growth and development tissue repair and immunity as well as normal tissue homeostasis Errors in cellular information processing are responsible for diseases such as cancer autoimmunity diabetes and neurological and psychiatric disorders There is substantial drug development concentrating on this and intercellular communication is the basis of much of neuropharmacology By understanding cell signaling diseases may be treated effectively and theoretically artificial tissues may be yielded Neurotransmitters receptors synaptic structure and organization gap junctions neurotrophic factors and neuropeptides are all explored in this volume as are the ways in which signaling controls neuroendocrinology neuroimmunology and neuropharmacology *Intercellular Communication in the Nervous System* provides a valuable desk reference for all scientists who consider signaling Chapters offer impressive scope with topics addressing neurotransmitters receptors synaptic structure and organization neuropeptides gap junctions neuropharmacology and more Richly illustrated in full color with over 200 figures Contributors represent the most outstanding scholarship in the field with each chapter providing fully vetted and reliable expert knowledge

Neuroscience for Psychologists Marc L. Zeise, 2020-11-30 This textbook is intended to give an introduction to neuroscience for students and researchers with no biomedical background Primarily written for psychologists this volume is a digest giving a rapid but solid overview for people who want to inform themselves about the core fields and core concepts in neuroscience but don't need so many anatomical or biochemical details given in classical textbooks for future doctors or

biologists It does not require any previous knowledge in basic science such as physics or chemistry On the other hand it contains chapters that do go beyond the issues dealt with in most neuroscience textbooks One chapter about mathematical modelling in neuroscience and another about tools of neuroscience explaining important methods The book is divided in two parts The first part presents core concepts in neuroscience Electrical Signals in the Nervous System Basics of Neuropharmacology Neurotransmitters The second part presents an overview of the neuroscience fields of special interest for psychology Clinical Neuropharmacology Inputs Outputs and Multisensory Processing Neural Plasticity in Humans Mathematical Modeling in Neuroscience Subjective Experience and its Neural Basis The last chapter Tools of Neuroscience presents important methodological approaches in neuroscience with a special focus on brain imaging Neuroscience for Psychologists aims to fill a gap in the teaching literature by providing an introductory text for psychology students that can also be used in other social sciences courses as well as a complement in courses of neurophysiology neuropharmacology or similar in careers outside as well as inside biological or medical fields Students of data sciences chemistry and physics as well as engineering interested in neuroscience will also profit from the text *Research Awards Index* ,1986 The Molecular Mechanism Behind Synaptic Transmission Jiajie Diao,Cong Ma,2020-05-05 **History of the Synapse** Max R. Bennett,2003-09-02 The History of the Synapse provides a history of those discoveries concerning the identification and function of synapses that provide the foundations for research during this new century with a personal view of the process by which new concepts have developed Previously published as essays the chapters in this book provide a history of various aspects of synaptic function beginning with the evolution over two and a half thousand years and how progress was made in the establishment of a conceptual structure that would allow the synapse to be identified at the beginning of the 20th century Numerous illustrations explain either the technical approach or the experimental finding Research Grants Index National Institutes of Health (U.S.). Division of Research Grants,1973 *Biomedical Index to PHS-supported Research* ,1993

Synaptic Plasticity in Pain Marzia Malcangio,2009-05-28 Primary sensory neurons respond to peripheral stimulation and project to the spinal cord Specifically the population of neurons which respond to damaging stimuli terminate in the superficial layers of the dorsal horn Therefore the dorsal horns constitute the first relay site for nociceptive fibre terminals which make synaptic contacts with second order neurons It has recently become clear that the strength of this first pain synapse is plastic and modifiable by several modulators including neuronal and non neuronal regulators and studies on the fundamental processes regulating the plasticity of the first pain synapse have resulted in the identification of new targets for the treatment of chronic pain This book will be of interest to a wide readership in the pain field

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