

SEROTONIN

FROM CELL BIOLOGY TO PHARMACOLOGY AND THERAPEUTICS

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Serotonin From Cell Biology To Pharmacology And Therapeutics

Thomas C. Moore



Serotonin From Cell Biology To Pharmacology And Therapeutics:

Serotonin Paul M. Vanhoutte, Rodolfo Paoletti, Nicoletta Brunello, Franco M. Maggi, 2012-12-06 This volume represents the proceedings of the invited lectures of the first International Symposium on Serotonin from Cell Biology to Pharmacology and Therapeutics which was held in Florence on March 29 April 1989 This meeting held under the co sponsorship of the Serotonin Club and the Fondazione Giovanni Lorenzini represents the first attempt to bring together scientists fascinated by the complexity of the action of 5 hydroxytryptamine throughout the body and in various species Hence this volume provides the reader with the unique overview of the sources effects receptors physiological actions and pathological role of Serotonin As such it will be of interest not only to the person devoting her or his research efforts to the study of 5 hydroxytryptamine but also to all scholars and even clinicians wanting to know how the powerful monoamine can modulate cellular functions To accelerate the publication of these proceedings the Editors and the publishers have selected the camera ready format and have avoided a lengthy refereeing process Hence the scientific content of and the opinions expressed in the chapters are the sole responsibility of the authors The Editors Milan and Houston The Editors want to thank Mrs H Liepman and her staff at Kluwer for the prompt and efficient handling of the manuscripts **Neurovascular Immunology** Thomas C.

Moore, 1992-10-28 Neurovascular Immunology provides an in depth exploration of the neurovascular branch of the neuro immune axis The book includes discussions regarding the role of neurovascular molecules and their evolutionary history in biological defense their major functions in invertebrates their roles in terrestrial vertebrates and their involvement in the organization and function of the vascular and nervous systems including the immune response defense system The book will appeal to all researchers practitioners and students interested in the functions of the nervous vascular and immune response systems Basic Mechanisms of the EEG Zschocke, Speckmann, 2012-12-06 This volume is based on selected and updated

papers from the symposium on Basic Mechanisms of the EEG which was held under the sponsorship of the German EEG Society in Hamburg on September 28 29 1990 The intention of this symposium was to relate recent experimental clinical and neuropathological data on the basic mechanism that underlie the EEG Although we know much about these mechanisms there is still much more to be learned The symposium was partly the continuation of an earlier symposium on Origin of Cerebral Field Potentials held in 1979 in Munster under the leadership of one of the present editors E J Speckmann and H Caspers The present work combines new experimental and clinical results with state of the art reports giving excellent general views The first chapter presents a historical survey of the roots of current developments in neurophysiology It seems that in the near future we may decipher the EEG which we have considered up to now somewhat as a cryptogram chapter 2 After chapter 3 a chapter concerned with more general points of the generation of cortical field potentials chapters 4 5 and 6 deal with several aspects and models of interactions and rhythms of cortical neurons The role of glial cells in cortical electrical field generation is considered in chapter 7 Chapter 8 emphasizes the significance of brain metabolism *National*

Library of Medicine Current Catalog National Library of Medicine (U.S.), Medical Management of Cancer-treatment Induced Emesis Mario A. Dicato, 2024-11-01 Nausea and vomiting are two of the most common side effects of anti cancer treatment and the discovery and clinical application of 5 hydroxytryptamine₃ receptor antagonists has transformed the management of these side effects resulting in a much improved quality of life for cancer patients This text presents a detailed overview of the management of cancer treatment induced emesis in a number of different treatment settings and focuses on the mechanisms and use of 5 HT₃ receptor antagonists Contributions are also included from the points of view of the nurse and the patient **Serotoninergergic Neurons and 5-HT Receptors in the CNS** H.G. Baumgarten, M. Göthert, 2012-12-06 With contributions by numerous experts *Toward a Molecular Basis of Alcohol Use and Abuse* B. Jansson, H. Jörnvall, U. Rydberg, L. Terenius, B.L. Vallee, 2013-03-13 The 39 chapters in this volume consider subjects ranging from genetics markers and molecular biology of alcoholism to clinical observations and treatment The aim is to integrate pertinent information from the fields of molecular and cell biology with view to establishing a molecular basis of alcohol use and abuse An initial preview summarizes historical aspects of alcohol use and subsequent chapters concern novel drugs pharmacological aspects gene structures cloning and enzymatic properties Also contributions by non traditional alcohol scientists have been included in this collection in order to highlight possible interaction and parallels between different fields Novel results of particular interest include up dated summaries on receptors enzymes and other proteins as well as corresponding gene structures and regulation setting the basis for distinguishing markers and pinpointing further possible pharmacological treatments

Current Catalog National Library of Medicine (U.S.), 1993 **Progress in Medicinal Chemistry**, 1996-04-24 Progress in Medicinal Chemistry Neurochemistry in Clinical Application Lily C. Tang, Stephen J. Tang, 2012-12-06 Neurological disorders cause untold suffering and financial burden to hundreds of thousands of people not only to the patients but also the relatives and society As of today though numerous scientists and clinicians have devoted their efforts to understand and combat these diseases there is still no cure or satisfactory solution to the problems Furthermore the brain is the most essential organ of a human being Realizing the importance of the brain the president of the United States George Bush declared the 90s as the Decade of the Brain in January 1992 Being in neuroscience research for almost three decades I initiated planned and organized the first international neuropharmacology symposium After long negotiation and fund raising with the assistance and moral support of Dr Abel Lajtha director of the Center of Neurochemistry in New York USA we finally successfully put the program together The Sun Yat sen Foundation in China supported all the local expenses of the symposium and Sun Yat sen University of Medicine in Guangzhou China served as host organization The symposium was held in Guangzhou China November 9 11 1992 the eve of Dr Sun Yat sen s birthday Dr Sun Yat sen was born in Cui Heng Cun on the outskirts of Guangzhou China on November 12 1866 He finished his high school education in the British and American Christian school in Honolulu where he was exposed to Western influence He had been long frustrated and discontented with

the backwardness and corruption of the Ching Dynasty Molecular Biochemistry and Physiology of Helminth Neuromuscular Systems David Halton, Leslie H. Chappell, 1996 This collection of articles edited by D W Halton is the specially commissioned supplement to the journal *Parasitology* volume 113 **International Symposium on Serotonin from Cell Biology to Pharmacology and Therapeutics**, 1989* **Airways Smooth Muscle: Neurotransmitters, Amines, Lipid Mediators and Signal Transduction** David Raeburn, Mark A. Giembycz, 2012-12-06 **The Pharmacology of Alcohol Abuse** Henry R. Kranzler, 2012-12-06 In recent years alcohol abuse has received increased international attention Such attention is justified by the enormous negative impact that this disorder has on health as well as on economic and social well being Governmental and other sources of research support have promoted substantial investigation into the negative consequences of alcohol examining both animal models and human subjects Consequently there has been a virtual explosion of preclinical and clinical data much of it focused on alcohol's pharmacologic effects However there have been few efforts to integrate this wealth of new information into a single manageable volume This volume provides an up to date in depth treatment of the pharmacology of alcohol particularly as it relates to alcohol abuse The overriding theme of the book is the interplay between the preclinical and clinical domains Increasingly these areas of investigation have served to inform one another a trend that can be expected to grow with time The topics covered include the effects of alcohol on biological systems and the impact of medications on those effects In addition recent insights obtained from molecular biological investigations are discussed in terms of their relevance for understanding the effects of alcohol at the cellular level and the implications of these for the development of medications Consideration is also given to important methodological issues that influence the evaluation of medications in the context of clinical trials **NIDA Research Monograph**, 1976 **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 **5-Hydroxytryptamine-3 Receptor Antagonists** Francis D. King, Brian J. Jones, Gareth J. Sanger, 1993-10-22 5 Hydroxytryptamine 3 Receptor Antagonists provides a comprehensive authoritative review of the topic featuring contributions by recognized leaders in the field The book's three sections cover compound discovery and activity rationalization the use of compounds for studying 5 HT₃ receptors and their applications to therapeutics This book will be an important reference for oncologists researchers working with the CNS and gastrointestinal disorders and anyone working in the 5 HT field within the pharmaceutical arena academia and medical practice Pharmacological Sciences: Perspectives for Research and Therapy in the Late 1990s A. Claudio Cuello, Brian Collier, 2012-12-06 This volume arose from the scientific program of the XIIth International Congress of Pharmacology held in Montreal Canada July 24-29 1994 The scientific program included plenary lectures and symposia in addition to poster presentations and colloquia The abstracts of the Congress presentations were published as supplement 1 of volume 72 by the

Canadian Journal of Physiology Dr Brian Collier was chair of the scientific program committee and thus also collaborated on this work. The objective that we pursued was to produce a volume of reasonable size which would feature all of the plenary lectures and symposia from those authors who agreed to participate. To this end we solicited mini reviews from plenary lecturers and asked symposia organizers to coordinate a single short review covering the individual topics within their event. Those who accepted this challenge are evident in this volume. We express our gratitude to these authors for doing so and for exercising considerable ingenuity in completing their task within a reasonable time.

Advances in Neuroregulation and Neuroprotection Catherine Collin, Masaru Minami, Hasan Parvez, Hideya Saito, Simone Parvez, Qureshi, Claude Reiss, 2005-04-15. Neuroregulation is a challenging and rapidly developing field that holds the key to many currently intractable medical conditions from nervous and mental diseases to stress related disorders. *Advances in Neuroregulation* mirrors the broad scope of research in this area with topics ranging from new concepts on the immune system and on the action of antidepressants to the evolution and development of the autonomic nervous system. In addition the latest research findings are presented for behavioural disorders and medical conditions such as Parkinson's disease, Alzheimer's disease, epilepsy and attention deficit hyperactivity disorder. Another area of emphasis is the body's responses to stress and the effect of neuroactive agents in the treatment of stress related conditions. Many chapters are devoted to the progress being made at the cellular and molecular level including areas such as the conditions for culture of different types of neural cells, conformational diseases and the protein folding problem, vasoactive intestinal polypeptide release from pancreatic islets, the effect of melatonin and corticosterone on macrophages. Here in a book that expands the frontiers of neuroscience, researchers into neuroregulation at the molecular and cellular levels as well as those working at the clinical and systemic levels will find important results relating to their field.

Clinical Pharmacology in Psychiatry Lars F. Gram, Luc P. Balant, Herbert Y. Meltzer, Svein G. Dahl, 2013-03-07. This book contains the papers from invited lecturers as well as selected contributions presented at the 6th International Meeting on Clinical Pharmacology in Psychiatry I M C P P held in Geneva, Switzerland, 5-7 June 1991. At this meeting the basic theme of the previous meetings in this series (Chicago 1979, Tromsø 1980, Odense 1982, Bethesda 1985, Tromsø 1988) was continued, namely to bridge the gap between experimental development and clinical reality in psychopharmacology. After more than 25 years of intensive research in biological psychiatry, basic understanding of the biological mechanisms underlying major psychiatric diseases has advanced significantly but is still far from complete. Likewise the hypotheses underlying the development of new psychotropics have been refined and produced a wide spectrum of novel yet designed compounds. The crucial condition for all progress in this field is reliable, informative clinical testing of new compounds. It is our hope that this book, as a continuation of the earlier publications in this series, provides further evidence of the ongoing interaction between preclinical and clinical scientists who only together can assure progress in this exciting area of research and clinical practice.

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