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Substance Use Disorders McGraw-Hill Education / Medical

This volume covers topics such as the structure and identification of functional domains of G proteins, and activation of G proteins by receptors or other regulators. The text takes an integrated approach to studying common experimental questions at many different levels related to G proteins. Methods related to G proteins using molecular modeling, systems biology, protein engineering, protein biochemistry, cell biology, and physiology are all accessible in the same volume. The critically acclaimed laboratory standard for more than forty years, Methods in Enzymology is one of the most highly respected publications in the field of biochemistry. Since 1955, each volume has been eagerly awaited, frequently consulted, and praised by researchers and reviewers alike. Now with more than 300 volumes (all of them still in print), the series contains much material still relevant today truly an essential publication for researchers in all fields of life sciences.

Advanced Scientific Computing in BASIC with Applications in Chemistry, Biology and Pharmacology Springer Science & Business Media

The first symposium on metabolic compartmentation in brain was held at the Rockefeller Foundation, Bellagio, Italy, July 11-16, 1971; the proceedings CR. Balazs and J. E. Cremer, editors, MacMillan) appeared in 1973. At the conclusion of the first symposium it was decided to assess in 2-3 years the progress in this rapidly developing area. This volume represents the proceedings of an Advanced Study Institute, made possible by a grant from the North Atlantic Treaty Organization, Scientific Affairs Division. Additional generous support by the Wellcome Trust allowed attendance by participants from non-NATO countries. S. Ber! D. D. Clarke D.

Schneider xi Introduction The term metabolic compartmentation, as related to the chemistry of the brain, appeared in print for the first time about 15 years ago. The concept was developed in the laboratory of Dr. Heinrich Waelsch as a result of studies related to the metabolism of glutamic acid and glutamine. It was welcomed by a number of neurochemists who felt that the concept had validity and would help explain metabolic phenomena that were otherwise quite puzzling. The concept gradually achieved general acceptance, and by 1971 the amount of information that could profit by being examined from the point of view of metabolic compartmentation had increased sufficiently to warrant a symposium on the subject ("Metabolic Compartmentation in the Brain," Balazs and Cremer, eds. , MacMillan, 1973). Almost all the participants at that initial symposium were present at the second, on which this volume is based.

G Protein Pathways, Part B: G Proteins and Their Regulators Springer Science & Business Media

This book engages in a critical discussion on how to respect and promote patients' autonomy in difficult cases such as palliative care and end-of-life decisions. These cases pose specific epistemic, normative, and practical problems, and the book elucidates the connection between the practical implications of the theoretical debate on respecting autonomy, on the one hand, and specific questions and challenges that arise in medical practice, on the other hand. Given that the idea of personal autonomy includes the notion of authenticity as one of its core components, the book explicitly includes discussions on underlying theories of the self. In doing so, it brings together original contributions and novel insights for "applied" scenarios based on interdisciplinary collaboration between German and Serbian scholars from philosophy, sociology, and law. It is of benefit to anyone cherishing autonomy in medical ethics and medical practice.

Mount Sinai Expert Guides Cambridge University Press

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. This popular primer provides a solid understanding of the nervous system, neurologic disorders, and treatments with drugs and other substances Nestler, Hyman, and Malenka ' s Molecular Neuropharmacology, Fourth Edition covers everything you need to know about molecular neuroscience. This meticulously detailed guide provides a deep dive into the pathophysiology of neurologic and psychiatric disorders by describing neuropharmacological fundamentals of the nervous system. Packed with tables, diagrams, and figures making the intricacies of neurochemistry easy to understand, it builds a solid understanding of major disease mechanisms by reviewing the effects of drug actions (organized by drug category), and it explains the neuropharmacology of specific neural and psychiatric disorders. Concise overviews of the effects of drugs and neurologically active substances appear before the descriptions of the minute details that lead to these effects—a format designed to boost understanding and knowledge retention of critical concepts.

Theories of the Self and Autonomy in Medical Ethics ScholarlyEditions This volume collects cutting-edge expert reviews in the oxytocin field and will be of interest to a broad scientific audience ranging from social neuroscience to clinical psychiatry. The role of the neuropeptide oxytocin in social behaviors is one of the earliest and most significant discoveries in social neuroscience. Influential studies in animal models have delineated many of the neural circuits and genetic components that underlie these behaviors. These discoveries have inspired researchers to investigate the effects of oxytocin on brain and behavior in humans and its potential relevance as a treatment for psychiatric disorders including borderline personality disorder and autism and schizophrenia spectrum disorders. In fact, there is no established social psychopharmacology in Psychiatry, and oxytocin can be seen as the first endogenous agent specifically addressing social-cognitive impairment in psychiatric disorders, with animal research suggesting that it could be especially efficient in the early postnatal period. From a human perspective, it is crucial to understand more precisely who can benefit from potential oxytocin-related treatments, which outcome measures will best represent their effects, how they should be administered, and what brain mechanisms are likely involved in mediating their effects. This type of “precision medicine” approach is in line with the research domain criteria defined by the U.S. National Institute of Mental Health.

Molecular Neuropharmacology: A Foundation for Clinical Neuroscience, Fourth Edition Elsevier In this book, the four leading experts on the ACE inhibitors donepezil, galantamine, and rivastigmine and the NMDA receptor antagonist memantine explain the practical pharmacology of these symptomatic drugs with the aim of providing a sound basis for their clinical use in patients with Alzheimer’s disease. In addition, an introductory chapter considers the basic theory of pharmacology for Alzheimer’s disease and the book closes with an overview of the ways in which symptomatic drugs for dementia are used. The wide acceptance of the amyloid cascade hypothesis has led to vigorous development of disease-modifying drugs for Alzheimer’s disease, such as amyloid vaccinations and gamma- or beta-secretase inhibitors. The failure of clinical trials of these drugs to yield satisfactory results has, however, meant that for the time being patients continue to be treated only with symptomatic drugs. There is accordingly a need to become more proficient in the use of symptomatic medicines, and it is against the background of this quest that Practical Pharmacology for Alzheimer’s Disease will be of wide interest.

NIH Public Advisory Groups Academic Press Part of the Mount Sinai Expert Guide series, this outstanding book provides rapid-access, clinical information on all aspects of Critical Care with a focus on clinical diagnosis and effective patient management. With strong focus on the very best in multidisciplinary patient care, it is the ideal point of care consultation tool for the busy physician.

Arrhythmia: New Insights for the Healthcare Professional: 2011 Edition Springer Nature Issues in Pharmacology, Pharmacy, Drug Research, and Drug Innovation: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Pharmacology, Pharmacy, Drug Research, and Drug Innovation. The editors have built Issues in Pharmacology, Pharmacy, Drug Research, and Drug Innovation: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Pharmacology, Pharmacy, Drug Research, and Drug Innovation in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The

content of Issues in Pharmacology, Pharmacy, Drug Research, and Drug Innovation: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

NINCDS Index to Research Grants Subject Number Investigator & Contracts Academic Press

Receptors and Cellular Pharmacology is a collection of the proceedings of the Sixth International Congress of Pharmacology held in Helsinki, Finland, on July 20-25, 1975 and organized by the Finnish Pharmacological Society. The papers explore developments relating to receptors and cellular pharmacology and address a wide range of topics such as the hydrophobic properties of the neuromuscular blocking agents and the use of toxins as tools in receptor studies. Comprised of 21 chapters, this volume begins with an introduction to histamine receptors, their pharmacological taxonomy and classification, their presence in the gastric mucosa, and their applications in medicine. The discussion then turns to pharmacological investigations on cells in culture; the acetylcholine receptor of intact and cultured chicken retina cells; actions of neurotoxins on the acetylcholine receptor; and the isolation and characterization of membrane receptors. Subsequent chapters deal with cyclic nucleotides as mediators of drug action, with particular reference to the mechanism of the relaxation-promoting effects of epinephrine on the mammalian heart. This book should be of interest to pharmacologists, internists, psychiatrists, neurologists, and anesthesiologists.

G Protein Pathways Academic Press

While all interventional cardiologists have access to pharmacopeial texts and databases and are aware of the growing number of pharmacological agents in the armamentarium, questions arise as to the ideal agent or combination of agents in differing patient situations. This superb text offers the reader coverage of all the major pharmacological t

Issues in Pharmacology, Pharmacy, Drug Research, and Drug Innovation: 2011 Edition Academic Press

Written primarily for students of medicine, pharmacy, and pharmacology, this introductory book provides a concise summary of the principles that underlie the science of pharmacology. It presents the basic concepts required for understanding the use, mechanisms of action, toxicity and side effects, and therapeutic application of drugs in man. Thus the book may also be of interest to medical practitioners and to biological and medical scientists. Among topics covered are the sources of drugs, the way they are administered and dealt with in the body, as well as concepts about the nature of their actions. The last include their chemical interactions with components of cells and the manner in which these lead to therapeutically desirable as well as undesirable and even toxic effects. In addition, clinically related subjects, such as drug interactions, teratogenic and carcinogenic effects are discussed. The development and testing of new drugs are also described. For easy

reference, at the back of the book there is a glossary of drugs named in the text.

HRA, HSA, CDC, OASH, ADAMHA Public Advisory Committees: Authority, Structure, Functions, Members Springer Nature

The purpose of this book is to provide a broad scope of substance use disorder research and how these findings can impact treatment outcomes. The research and outcomes described in this book represent important principles related to identifying and understanding factors related to substance use disorders. The first section is dedicated to methodology including population-based surveys, basic neuroanatomy, chemistry, molecular biology, behavioral models and brain imaging. The second section utilizes this methodology in research related to opioids, cocaine, marijuana, alcohol and nicotine. The book is aimed at both professionals (academics, clinicians, practitioners) and students or trainees.

Psychopharmacology Abstracts Elsevier

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 Cana dian Journal of Physiology & Pharmacology. The Congress organizers sought a more expansive treatment of the Congress proceedings and appointed Dr. A. Claudio Cuello to coordinate preparation of the present volume; 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 coordi nate 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.

Handbook of Systems Biology HarperCollins

A comprehensive survey of the many recent advances in the field of G protein-coupled receptors (GPCR). The authors describe the current knowledge of GPCR receptor structure and function, the different mechanisms involved in the regulation of GPCR function, and the role of pharmacological chaperones in GPCR folding and maturation. They also present new findings about how GPCR dimerization/oligomerization modifies the properties of individual receptors and show how recent developments are leading to significant advances in drug discovery, such as the detection of ligands for orphan GPCRs. Also discussed are the most recent developments that could lead to new drug discoveries: the role of GPCRs in mediating pain, the development of receptor-type selective drugs based on the structural plasticity of receptor activation, and the identification of natural ligands of orphan GPCRs (deorphanization) as possible drug targets.

The Journal of Pharmacology and Experimental Therapeutics Frontiers Media SA

Progress in Molecular Biology and Translational Science provides a forum for discussion of new discoveries, approaches, and ideas in molecular

biology. It contains contributions from leaders in their fields and abundant references. This volume brings together different aspects of, and approaches to, molecular and multi-scale modeling, with applications to a diverse range of neurological diseases. Mathematical and computational modeling offers a powerful approach for examining the interaction between molecular pathways and ionic channels in producing neuron electrical activity. It is well accepted that non-linear interactions among diverse ionic channels can produce unexpected neuron behavior and hinder a deep understanding of how ion channel mutations bring about abnormal behavior and disease. Interactions with the diverse signaling pathways activated by G protein coupled receptors or calcium influx adds an additional level of complexity. Modeling is an approach to integrate myriad data sources into a cohesive and quantitative model in order to evaluate hypotheses about neuron function. In particular, a validated model developed using in vitro data allows simulations of the response to in vivo like spatio-temporal patterns of synaptic input. Incorporating molecular signaling pathways into an electrical model, allows a greater range of models to be developed, ones that can predict the response to pharmaceuticals, many of which target neuromodulator pathways. Contributions from leading authorities Informs and updates on all the latest developments in the field

The G Protein-Coupled Receptors Handbook Elsevier

Directory of information for public advisory committees and 4 agencies of the Public Health Service directly concerned with health care, health services, and related research activities. Committees are arranged under the offices or agencies, e.g., the National Institute of Mental Health has 30 committees listed thereunder. Each entry gives authority of the committee, structure, function, meetings, and members. Indexes of committees and individuals.

Pharmacological Sciences: Perspectives for Research and Therapy in the Late 1990s John Wiley & Sons

Drugs—Advances in Research and Application / 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Drugs. The editors have built Drugs—Advances in Research and Application: 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Drugs in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Drugs—Advances in Research and Application: 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

Mount Sinai Expert Guides McGraw Hill Professional

This book provides an entry point into Systems Biology for researchers in genetics, molecular biology, cell biology, microbiology and biomedical science to understand the key concepts to expanding their work. Chapters organized around broader themes of Organelles and Organisms, Systems Properties of Biological Processes, Cellular Networks, and Systems Biology and Disease

discuss the development of concepts, the current applications, and the future prospects. Emphasis is placed on concepts and insights into the multi-disciplinary nature of the field as well as the importance of systems biology in human biological research. Technology, being an extremely important aspect of scientific progress overall, and in the creation of new fields in particular, is discussed in 'boxes' within each chapter to relate to appropriate topics. 2013 Honorable Mention for Single Volume Reference in Science from the Association of American Publishers' PROSE Awards Emphasizes the interdisciplinary nature of systems biology with contributions from leaders in a variety of disciplines Includes the latest research developments in human and animal models to assist with translational research Presents biological and computational aspects of the science side-by-side to facilitate collaboration between computational and biological researchers

National Research Funding Levels ScholarlyEditions

Part of the Mount Sinai Expert Guide series, this outstanding book provides rapid-access, clinical information on all aspects of Critical Care with a focus on clinical diagnosis and effective patient management. With strong focus on the very best in multidisciplinary patient care, it is the ideal point of care consultation tool for the busy physician.

Subject Index of Current Research Grants and Contracts Administered by the National Institute of General Medical Sciences CRC Press

An essential reference for biomedical scientists and clinicians in hematology, cardiology, thrombosis and related disciplines.