

Free epub Medicinal chemistry chem 458 658 chapter 8 receptors and (Read Only)

Handbook of Receptors and Channels Receptors More about Receptors Chemoattractant Ligands and Their Receptors The Cytokines of the Immune System G Protein-Coupled Receptors in Immune Response and Regulation Toll-Like Receptors (TLRs) and Innate Immunity Janeway's Immunobiology Molecular Biology of The Cell Constitutive Activity in Receptors and Other Proteins Toll-like Receptors: Roles in Infection and Neuropathology Serotonin Receptors and their Ligands Chemokines, Chemokine Receptors and Disease Investigating and harnessing T-cell functions with engineered immune receptors and their ligands Growth Factors and their Receptors in Cancer Metastasis G Protein-Coupled Receptors Neuromorphic Olfaction Peptide Receptors Receptors in the Human Nervous System Growth Factors, Peptides, and Receptors Chemistry of Opioids Receptors and Centrally Acting Drugs Pharmacokinetics and Drug Metabolism Molecular Aspects of G Protein-coupled Receptors Itch Neuronal Nicotinic Receptors Opiate Receptors and Antagonists G Protein-Coupled Receptors Growth Factors and Their Receptors in Cell Differentiation, Cancer and Cancer Therapy Hormones, Receptors and Cellular Interactions in Plants Receptor Tyrosine Kinases: Family and Subfamilies Holland-Frei Cancer Medicine Cumulated Index Medicus Death Receptors in Cancer Therapy Opioids and Their Receptors Receptors and Recognition Serotonin Receptors in Neurobiology Cytokine-Induced Pathology Muscarinic Receptors Sigma Receptors Textbook of Receptor Pharmacology

Handbook of Receptors and Channels

1993-10-20

the cloning sequencing and expression of a variety of membrane receptors and channels indicate the existence of at least four superfamilies of molecular structures that mediate signal transduction presently more than 400 receptors have been cloned and sequenced the handbook of receptors and channels is the first handbook series to present the enormous amount of new molecular biological receptor data in a practical and useful format each volume in this remarkable series will focus on a specific molecular superfamily of receptors complete amino acid sequence information on all cloned receptors as well as relevant pharmacological information will be included furthermore the format for each of the volumes will be consistent to allow for easy comparisons of different molecular subtypes for a given transmitter g protein coupled receptors is the first volume in this new handbook series topics covered in future volumes include

Receptors

2016-01-26

advances in pharmacology and therapeutics volume 1 receptors contains the proceedings of the 7th international congress of pharmacology held in paris france in 1978 the papers explore advances in the understanding of receptors their

pharmacology and their therapeutic applications topics covered range from opiate receptors and their endogenous ligands to membrane receptors in eukaryotic cells applications of binding to pharmacological research are also discussed this volume is comprised of 29 chapters and opens with an overview of the chemistry and biochemistry of pituitary endorphins paying particular attention to the correlation between the analgesic potency receptor binding properties preferred solution conformation and metabolic stability of natural and synthetic opioid peptides the reader is then introduced to the biosynthesis and release of the enkephalins opiate receptors and their endogenous ligands denervation supersensitivity in skeletal muscle and biochemistry and physiology of dopaminergic and beta adrenergic receptors in mammalian central nervous system the following chapters explore the role of guanylnucleotides in the regulation of hormonally stimulated adenylate cyclase interactions of cholera toxin with cell membranes problems in studying hormone receptor binding and the mechanism of action of anti hormones this book will be of interest to practitioners in biosciences pharmacology physiology and medicine

More about Receptors

1982

chemoattractant ligands and their receptors succinctly summarizes cutting edge research in the important area of chemoattraction in immunology it explains how chemoattractant molecules mobilize immune cells to ward off attack by invading pathogens both at a molecular and at a cellular level written by acknowledged

experts in the field it contains detailed molecular and structural information on each of the major chemoattractants and their receptors its unique multidisciplinary approach encompasses biology immunology protein chemistry and molecular biology a time saving reference for both researchers and students

Chemoattractant Ligands and Their Receptors

2020-01-31

the cytokines of the immune system catalogs cytokines and links them to physiology and pathology providing a welcome and hugely timely tool for scientists in all related fields in cataloguing cytokines it lists their potential for therapeutic use links them to disease treatments needing further research and development and shows their utility for learning about the immune system this book offers a new approach in the study of cytokines by combining detailed guidebook style cytokine description disease linking and presentation of immunologic roles supplies new ideas for basic and clinical research provides cytokine descriptions in a guidebook style cataloging the origins structures functions receptors disease linkage and therapeutic potentials offers a textbook style view on the immune system with the immunologic role of each cytokine

The Cytokines of the Immune System

2015-05-23

g protein coupled receptors in immune response and regulation volume 136 presents emerging concepts related to the role of gpcrs in immune response and regulation users will find updated chapters on a variety of topics including beta adrenergic signaling in the onset and progression of asthma the emerging roles of regulators of g protein signaling rg proteins in the immune system information on kinin receptors in immune response and pathogenic infections and sections on gpcr signaling in c elegans and its implications in immune response gpcr kinases in inflammatory response and signaling and grk2 in inflammation regulation of t cell receptors and ige signaling chapters in this book discuss not only the well known aspects of gpcr signaling in immunology but also presents many emerging paradigms that have not yet been reported in classical textbooks each chapter presents a forward looking discussion providing a glimpse of the tremendous potential associated with the specific receptor systems discussed brings together contributions from leading experts in the area of gpcr biology discusses current paradigms and the future potential of understanding gpcr signaling in immune response and regulation presents the first of its kind book to focus on specific gpcr systems in various aspects of immunology all brought together in one volume

G Protein-Coupled Receptors in Immune Response and Regulation

2017-09-23

overall recent research on tlrs has led to tremendous increase in our understanding

of early steps in pathogen recognition and will presumably lead to potent tlr targeting therapeutics in the future this book reviews and highlights our recent understanding on the function and ligands of tlrs as well as their role in autoimmunity dendritic cell activation and target structures for therapeutic intervention

Toll-Like Receptors (TLRs) and Innate Immunity

2007-12-11

the janeway s immunobiology cd rom immunobiology interactive is included with each book and can be purchased separately it contains animations and videos with voiceover narration as well as the figures from the text for presentation purposes

Janeway's Immunobiology

2010-06-22

this volume of methods in enzymology covers the current methodology for the detection and assessment of constitutively active proteins the chapters written by expert authors who are leaders in the field provide hints and tricks not available in primary research publications it is extensively referenced with useful figures and tables throughout the volume expert authors who are leaders in the field extensively referenced and useful figures and tables provides hints and tricks to

facilitate reproduction of methods

Molecular Biology of The Cell

2002

mammalian toll like receptors tlrs were first identified in 1997 based on their homology with drosophila toll which mediates innate immunity in the fly in recent years the number of studies describing tlr expression and function in the nervous system has been increasing steadily and expanding beyond their traditional roles in infectious diseases to neurodegenerative disorders and injury interest in the field serves as the impetus for this volume in the current topics in microbiology and immunology series entitled toll like receptors roles in infection and neuropathology the first five chapters highlight more traditional roles for tlrs in infectious diseases of the cns the second half of the volume discusses recently emerging roles for tlrs in non infectious neurodegenerative diseases and the challenges faced in these models with identifying endogenous ligands several conceptual theories are introduced in various chapters that deal with the dual nature of tlr engagement and whether these signals favor neuroprotective versus neurodegenerative outcomes this volume should be informative for both experts as well as newcomers to the field of tlrs in the nervous system based on its coverage of basic tlr biology as well as specialization to discuss specific diseases of the nervous system where tlr function has been implicated a must read for researchers interested in the dual role of these receptors in neuroinfection and neurodegeneration

Constitutive Activity in Receptors and Other Proteins

2010-11-24

an international group of authors have produced an overview of the progress made in the medicinal chemistry of compounds selectively acting at serotonin receptors or serotonin transporters either as agonists partial agonists or antagonists structure affinity relationships and structure activity relationships of agonists partial agonists and antagonists of 5 ht receptors and uptake sites are discussed structure sequence homology and the effect of site directed mutations of 5 ht receptors and the reuptake site on the binding of ligands show the tremendous impact of molecular biology on medicinal chemistry research also discussed is the pharmacology and potential clinical applications of ligands for the 5 ht receptors and the reuptake site by developing elegant techniques of cloning and expression of serotonin receptor subtypes their mutants and chimeras a unique opportunity was offered to study the binding mode of serotonergic ligands to their receptors and transporters the distribution structure and homologies of serotonin receptor subtypes and the structure of the serotonin transporter are also taken into account the potential therapeutic applications of ligands of the different subtypes are described altogether an excellent addition to the pharmacochemical library series

Toll-like Receptors: Roles in Infection and Neuropathology

2009-08-19

this volume in the current topics in membranes series discusses the biology of chemokines and their binding partners chemokine receptors in normal and disease related states chemokines are small proteins that are important in normal immune responses recent research demonstrates a role for these proteins in a variety of diseases such as heart disease allergy asthma and cancer as a result of the discovery of this link to disease the topic of chemokines and drugs that block their actions has become an intense area of study this book presents the topics of chemokines chemokine receptors and related pathologies in an integrated manner that provides the reader with a comprehensive and up to date knowledge of these topics provides a comprehensive overview of the history molecular biology cell biology pharmacology physiology and pathophysiology of chemokines and their receptors each chapter discusses future directions and unanswered questions of chemokine biology serves as a road map for future research

Serotonin Receptors and their Ligands

1997-07-10

t cells are an essential component of the immune system that provide protection

against pathogen infections and cancer and are involved in the aetiology of numerous autoimmune and autoinflammatory pathologies their importance in disease the relative ease to isolate expand and manipulate them ex vivo have put t cells at the forefront of basic and translational research in immunology decades of study have shed some light on the unique way t cells integrate extrinsic environmental cues influencing an activation program triggered by interactions between peptide mhc complexes and the antigen recognition machinery constituted of clonally distributed t cell receptors and their co receptor cd4 or cd8 the manipulation of these molecular determinants in cellular systems or as recombinant proteins has considerably enhanced our ability to understand antigen specific t cell activation to monitor ongoing t cell responses and to exploit t cells for therapy even though these principles have given numerous insights in the biology of cd8 t cells that translate into promising therapeutic prospects as illustrated by recent breakthroughs in cancer therapy they have proven more challenging to apply to cd4 t cells this research topic aims to provide a comprehensive view of the recent insights provided by the use of engineered antigen receptors and their ligands on t cell activation and how they have been or could be harnessed to design efficient immunotherapies

Chemokines, Chemokine Receptors and Disease

2005-09-02

written by experts worldwide this book provides the current knowledge of growth factors and their receptors in cancer metastasis it covers basic cellular and

molecular biology of growth factors and their receptors as well as their role in cancer and cancer metastasis in clinical settings the book is intended for cancer biologists cell biologists biochemists geneticists oncologists surgeons and physicians it is also a valuable reference for those who work in the area of cancer research cancer therapies cancer care pharmaceutical industry postgraduates and undergraduates who pursue a research career in cancer and growth factors will find it an extremely useful reference book

Investigating and harnessing T-cell functions with engineered immune receptors and their ligands

2015-01-22

covering recently developed methods in membrane bound receptors this book emphasizes receptor structure and function knowledge of which is essential to the study of signal transduction g protein coupled receptors has culled contributors from domestic and international sources providing a broad base of knowledge some topics covered are the r

Growth Factors and their Receptors in Cancer Metastasis

2001-10-31

many advances have been made in the last decade in the understanding of the

computational principles underlying olfactory system functioning neuromorphic olfaction is a collaboration among european researchers who through neurochem fp7 grant agreement number 216916 a challenging and innovative european funded project introduce novel computing p

G Protein-Coupled Receptors

2019-04-24

peptide receptors part i was published in 2000 as volume 16 of the handbook of chemical neuroanatomy series this volume summarized current knowledge on the discrete anatomical distribution of ten families of neuropeptide receptors expressed in the mammalian cns part ii is its natural complement with chapters covering six additional families of neuropeptide receptors for ligands ranging from well known peptides such as the opioids and neurotensin to recently isolated ones like the orexins as in the case of part i this volume integrates photomontages and maps of quantitative receptor autoradiography in situ hybridization histochemistry and immunocytochemistry data derived from transgenic and knock out animals are also summarized helping to decipher the possible physiological and pathophysiological roles of a given peptide family some chapters also review current knowledge on the profile of internalization of the neuropeptide receptor complex an area of intense research activities that should help to better understand mechanisms involved in desensitization and tachyphylaxis

Neuromorphic Olfaction

2016-04-19

receptors in the human nervous system is a synthesis of the results of receptor mapping by leaders in the field in addition to a comprehensive discussion of the distribution and possible interactions of the receptors of different neuroactive substances this book also contains an abundance of pictorial representations of receptor distributions high quality photographs of one receptor are often juxtaposed with photographs of the distribution of a different receptor or receptor subtype for the consideration of possible interactions between different systems the book surveys the distribution of receptor subtypes for the classical monoamine transmitters acetylcholine adrenaline noradrenaline and serotonin as well as the distribution of receptors for the excitatory and inhibitory amino acids glutamate gaba and benzodiazepines as well as the opioid peptides angiotensin and other neuropeptides the distribution of multiple types of serotonin receptors is given in detail and the codistribution of receptors in the cortex is discussed the book is directed toward researchers in the field of chemical neuroanatomy as well as pharmacologists neurophysiologists and neuroscientists

Peptide Receptors

2000

the twelfth annual washington spring symposium on health sciences attracted over 300 scientists from 20 countries it was held at the lisner auditorium of the george washington university in washington d c during june 1 5 1992 the theme of the meeting was growth factors peptides and receptors and speakers emphasized both basic and clinical research in these areas the seven plenary sessions emphasized peptides growth factors peptide receptors growth factor receptors second messengers proliferation and clinical correlations the chapters in this volume are derived from each of these scientific sessions plus the poster and special sessions the abraham white distinguished scientist award was presented to dr solomon h snyder for his numerous contributions to the field of neurochemistry he presented the keynote address nitric oxide a novel neuronal messenger dr snyder discussed the pathway of nitric oxide no synthesis by the enzyme no synthase released no may be responsible for the neuronal toxicity associated with nmda an excitatory amino acid analogue dr snyder noted that no may be the first of a new class of transmitters with carbon monoxide being another candidate the distinguished public service award was presented to senator fritz hollings in of his leadership and outstanding achievements in the united states senate recognition and for his legislative support for biomedical research and education in the symposium banquet address senator hollings stressed the need for continued support of research to combat serious diseases such as cancer

Receptors in the Human Nervous System

2013-10-22

recent advances in the synthesis of morphine and related alkaloids by n chida
opioids in preclinical and clinical trials by h nagase and h fujii synthesis of 14
alkoxymorphinan derivatives and their pharmacological actions by h schmidhammer and
m spetea 14 amino 4 5 epoxymorphinan derivatives and their pharmacological actions
by j w lewis and s m husbands nonpeptidic delta δ opioid agonists and antagonists of
the diarylmethylpiperazine class what have we learned by s n calderon synthesis of
neoclerodane diterpenes and their pharmacological effects by k m lovell k m prevatt
smith a lozama and t e prisinzano synthesis of novel basic skeletons derived from
naltrexone by h nagase and h fujii twin and triplet drugs in opioid research by h
fujii 3d pharmacophore identification for κ opioid agonists using ligand based drug
design techniques by n yamaotsu and s hirono

Growth Factors, Peptides, and Receptors

2012-12-06

advances in pharmacological research and practice volume 2 receptors and centrally
acting drugs presents the proceeding of the 4th congress of the hungarian
pharmacological society held in budapest hungary in 1985 this book presents a
comprehensive view of the developments in the fields of receptors and centrally
acting drugs as well as in pharmacokinetics and drug metabolism organized into two
sections encompassing 25 chapters this volume begins with an overview of
prejunctional regulation of neuromuscular transmission this text then explores the
whole body autoradiography that is used extensively in toxicological research and

screening other chapters consider the three major classes of models used in pharmacokinetics this book discusses as well the various aspects of melanin drug interactions the final chapter deals with the investigation on the melanin affinity of amphetamine derivatives this book is a valuable resource for pharmacologists pharmacokineticists and researchers

Chemistry of Opioids

2011-01-19

in the recent years studies based on two hybrid screens proteomic biochemical and cell biology approaches have shown that intracellular domains of g protein coupled receptors gpcr or heptaspanning membrane receptors hsmrs interact with intracellular proteins these interactions are the basis of a protein network associated to these receptors which includes scaffolding proteins containing one or several pdz post synaptic density 95 discs large zona occludens 1 domains signalling proteins and proteins of the cytoskeleton the present book is focused on the emerging evidence for interactions of g protein coupled receptors with scaffolding cytoskeletal and signalling proteins that will play a role in the targeting anchoring and functioning of these receptors in the plasma membrane thus contributing to cell development and plasticity

Receptors and Centrally Acting Drugs Pharmacokinetics and Drug Metabolism

2013-10-22

advances in itch research have elucidated differences between itch and pain but have also blurred the distinction between them there is a long debate about how somatic sensations including touch pain itch and temperature sensitivity are encoded by the nervous system research suggests that each sensory modality is processed along a fixed direct line communication system from the skin to the brain itch mechanisms and treatment presents a timely update on all aspects of itch research and the clinical treatment of itch that accompanies many dermatological conditions including psoriasis neuropathic itch cutaneous t cells lymphomas and systemic diseases such as kidney and liver disease and cancer composed of contributions from distinguished researchers around the world the book explores topics such as neuropathic itch peripheral neuronal mechanism of itch the role of par 2 in neuroimmune communication and itch mrgprs as itch receptors the role of interleukin 31 and oncostatin m in itch and neuroimmune communication spinal coding of itch and pain spinal microcircuits and the regulation of itch examining new findings on cellular and molecular mechanisms the book is a compendium of the most current research on itch its prevalence in society and the problems associated with treatment

Molecular Aspects of G Protein-coupled Receptors

2008

neuronal nicotinic receptors are key molecules for signal transduction in a number of neuronal pathways they are widely distributed in the brain and are known to be involved in cognitive tasks including learning and memory in smoking addiction and in several brain diseases such as alzheimer s and parkinson s dementias schizophrenia and epilepsy this book provides a comprehensive review of the field starting with a historical perspective and dealing with the molecular structure of these receptors their biophysical and pharmacological properties their distribution in central and peripheral nervous systems and their major involvement in brain functions particular emphasis is paid to drugs both new and old that are useful in the diagnosis and treatment of diseases involving neuronal nicotinic receptors finally the relevance of these receptors in smoking addiction is carefully evaluated together with future trends and the latest results

Itch

2014-02-25

comprehensive and authoritative opioid receptors and antagonists from bench to clinic offers neuroscientists pharmacologists and interested clinicians a unique survey of the extensive and diverse research efforts currently employed with opioid

antagonists to develop novel innovative drug therapies summarizes the present understanding of the chemistry pharmacology and molecular biology of opioid receptors and their subtypes highlights differences and similarities between the opioid pharmacology of animals and human describes current and potential therapeutic areas for opioid antagonists including substance abuse alcohol and ingestive behaviors behavioral disorders and other medical indications supported by nonclinical and clinical evidence focuses on the development of exciting and innovative drug delivery approaches that are being used with opioid antagonists for the above medical indications

Neuronal Nicotinic Receptors

2000

this book is about the recent advances in the structural and functional characterization of receptors that influence intracellular signalling events through interaction with intracellular gtp binding proteins g proteins molecular cloning of members of the g protein coupled receptor superfamily has complemented pharmacological investigations in providing a realization of the structural and functional diversity of these receptors an increased understanding of the involvement of particular receptor subtypes in normal and pathophysiological processes represents exciting possibilities for the development of highly specific and effective therapeutic agents

Opiate Receptors and Antagonists

2009-03-12

annotation g v sherbet provides insights into the signalling processes involved in morphogenesis and pathogenesis with emphasis on using the elements of the signalling cascades as targets for therapeutic deployment the book focuses on the relationships and convergence of growth factors and their receptors in development and pathogenesis

G Protein-Coupled Receptors

2013-06-29

this book takes a broad look at the current status of research on receptors in higher and lower plants it starts with a discussion of some hormone receptors auxins ethylene and gibberellin in higher plants and then considers the role of cyclic amp and its receptors in the slime mould dictyostelium

Growth Factors and Their Receptors in Cell Differentiation, Cancer and Cancer Therapy

2011-07-14

this book devotes a chapter to each rtk family and the multiple receptors within each family thoroughly covering all of the rtk's the chapters all follow the same structure presenting this essential information in an accessible and user friendly format each chapter covers one specific family of receptors and begins with a general introduction to that family and a comprehensive discussion of that receptor's family in development and human disease following are in depth analyses of each family's receptors with discussions on the gene protein ligands activation and signaling pathways along with discussion of receptor processing and signal attenuation further cross talk with other receptors systems post translational modification and specific unique characteristics to each rtk are discussed because it isolates and explains each family this book is an essential companion volume to receptor tyrosine kinases structure functions and role in human disease by the same authors which talks about rtk's more generally and without the family by family detail

Hormones, Receptors and Cellular Interactions in Plants

1986-02-06

holland frei cancer medicine ninth edition offers a balanced view of the most current knowledge of cancer science and clinical oncology practice this all new edition is the consummate reference source for medical oncologists radiation oncologists internists surgical oncologists and others who treat cancer patients a translational perspective throughout integrating cancer biology with cancer

management providing an in depth understanding of the disease an emphasis on multidisciplinary research driven patient care to improve outcomes and optimal use of all appropriate therapies cutting edge coverage of personalized cancer care including molecular diagnostics and therapeutics concise readable clinically relevant text with algorithms guidelines and insight into the use of both conventional and novel drugs includes free access to the wiley digital edition providing search across the book the full reference list with web links illustrations and photographs and post publication updates

Receptor Tyrosine Kinases: Family and Subfamilies

2015-07-31

an in depth review of our latest understanding of the molecular events that regulate cell death and those molecules that provide targets for developing agonists or antagonists to modulate death signaling for therapeutic purposes the authors focus on the extrinsic system of death receptors their regulation and function and their abnormalities in cancer topics of particular interest include resistance to apoptosis trail signaling death receptors in embryonic development mechanisms of caspase activation and death receptor mutations in cancer additional chapters address death signaling in melanoma synthetic retinoids and death receptors the role of p53 in death receptor regulation immune suppression of cancer and combination therapy with death ligands

Holland-Frei Cancer Medicine

2017-03-10

the interest in opioids such as morphine the prototypical opioid ligand has been maintained through the years the identification of endogenous opioids and their receptors mu delta kappa and nociceptin molecular cloning and the elucidation of the crystal structures of opioid receptors represent key milestones in opioid research the opioid system modulates numerous pharmacological responses with therapeutic i e analgesia and detrimental side effects i e addiction the medical use and misuse of opioids have dramatically increased leading to the 21st century opioid crisis this book presents recent developments in opioid drug discovery specifically in the medicinal chemistry and pharmacology of new ligands targeting the opioid receptors as effective and safe therapeutics for human diseases furthermore it draws a special attention to advancing concepts and strategies in opioid drug discovery to mitigate opioid liabilities the diversity among the discussed topics is a testimony to the complexity of the opioid system which results from the expression regulation and functional role of ligands and receptors the array of multidisciplinary research areas illustrates the rapidly developing basic research and translational activities in opioid drug discovery this book will serve as a useful reference while also stimulating continued research in the chemistry and pharmacology of opioids and their receptors with the prospect of developing improved therapies for human diseases but also improving health and quality of life in general

Cumulated Index Medicus

1990

this new series is concerned with intercellular communication and recognition it is now widely appreciated that these processes play a crucial role in virtually all biological systems and functions these encompass fertilisation embryonic development infectious interactions the activity of the nervous system the regulation of growth and development by hormones and the immune response to foreign or non self antigens historically as described in the first review in this volume the general concept of cell associated receptors as the molecular entity primarily responsible for the specificity of signal recognition arose independently in the fields of immunology pharmacology and developmental biology from an early stage the analogy between cellular recognition and the discriminatory activity of antibodies and enzymes was emphasised a vital conceptual advance expressed most clearly by linus pauling and paul weiss was the idea that non covalent molecular interactions of proteins in particular were responsible for biological specificity in general in the last decade several major advances have led to a new level of understanding of the molecular basis of cellular recognition in several systems in particular with neurotransmitters hormones and antigens it is possible to directly demonstrate the existence of receptors associated in each case with the cell surface these studies have been paralleled by equally important insights into the general structure and organisation of cell membranes and the possible ways in which signals arriving from the outside can be transduced across the cell surface membrane to induce or regulate

the cell's programmed responses

Death Receptors in Cancer Therapy

2005

a number of developments spanning a multitude of techniques makes this an exciting time for research in serotonin receptors a comprehensive review of the subject from a multidisciplinary perspective serotonin receptors in neurobiology is among the first books to include information on serotonin receptor knockout studies with contributions from leading experts in their fields the book explores serotonin receptors from a broad based multidisciplinary approach the approaches described vary from molecular biological techniques to fluorescence microscopy and imaging to genetic manipulation in animal models providing a wide range of tools to study serotonergic phenomena while each of these approaches has its own advantages and limitations the synthesis of information and knowledge achieved from studies using multiple approaches will result in a comprehensive understanding of the underlying complex phenomena involved in serotonergic signaling and its implications in health and disease the book provides an overall understanding of these receptors based on currently used methodologies and techniques it describes specific experimental procedures that will be of use to researchers interested in addressing similar problems involving other g protein coupled receptor signaling systems

Opioids and Their Receptors

2020-12-18

international review of experimental pathology volume 34 cytokine induced pathology part b inflammatory cytokines receptors and disease presents experimental findings obtained from the most recently studied cytokines and growth factors the book is organized into three sections section i contains studies on pathology induced by inflammatory cytokines topics covered include the biological effects of interferon γ tumor necrosis factor α tnf interleukin 8 transforming growth factor β and leukemia inhibitory factor on experimental animals tnf induced pathophysiologic alterations and the biological activity of leukemia inhibitory factor lif the papers in section ii examine cytokine receptors including their structure and signal transduction interferon γ ifn γ activity and immunoregulatory role of tnf α section iii is devoted to cytokine receptors including studies on tnf properties relevant to tissue injury and its role in t cell mediated immunopathological reactions in vivo the role of cytokines in experimental pulmonary fibrosis induced in mice and the role of cytokines in bacterial meningitis

Receptors and Recognition

2013-11-21

muscarinic acetylcholine receptors have played a key role in the advancement of

knowledge of pharmacology and neurotransmission since the inception of studies in these fields and the effects of naturally occurring drugs acting on muscarinic receptors were known and exploited for both therapeutic and non therapeutic purposes for hundreds of years before the existence of the receptors themselves was recognized this volume presents a broad yet detailed review of current knowledge of muscarinic receptors that will be valuable both to long time muscarinic investigators and to those new to the field it describes the detailed insights that have been obtained on the structure function and cell biology of muscarinic receptors this volume also describes physiological analyses of muscarinic receptors and their roles in regulating the function of the brain and of a variety of peripheral tissues this volume shows how the study of muscarinic receptors continues to provide new and surprising insights not just to the cholinergic system but to the broad areas of neurobiology cell biology pharmacology and therapeutics

Serotonin Receptors in Neurobiology

2007-05-17

this book provides an update on sigma receptors and summarizes recent advances in the medicinal chemistry molecular biology and cell biology of sigma receptors it describes the functional effects mediated by these receptors and the potential clinical implications of these actions the information is put in a historical perspective this provides a launching point from which future studies and research directions can easily be developed

Cytokine-Induced Pathology

2013-10-22

for the past four decades university college london has offered a renowned course on receptor pharmacology originating from this course the perennially bestselling textbook of receptor pharmacology has presented in depth coverage of this rapidly expanding area of research this third edition continues to combine current understanding of classica

Muscarinic Receptors

2012-01-06

Sigma Receptors

2007-02-15

Textbook of Receptor Pharmacology

2010-09-10

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