

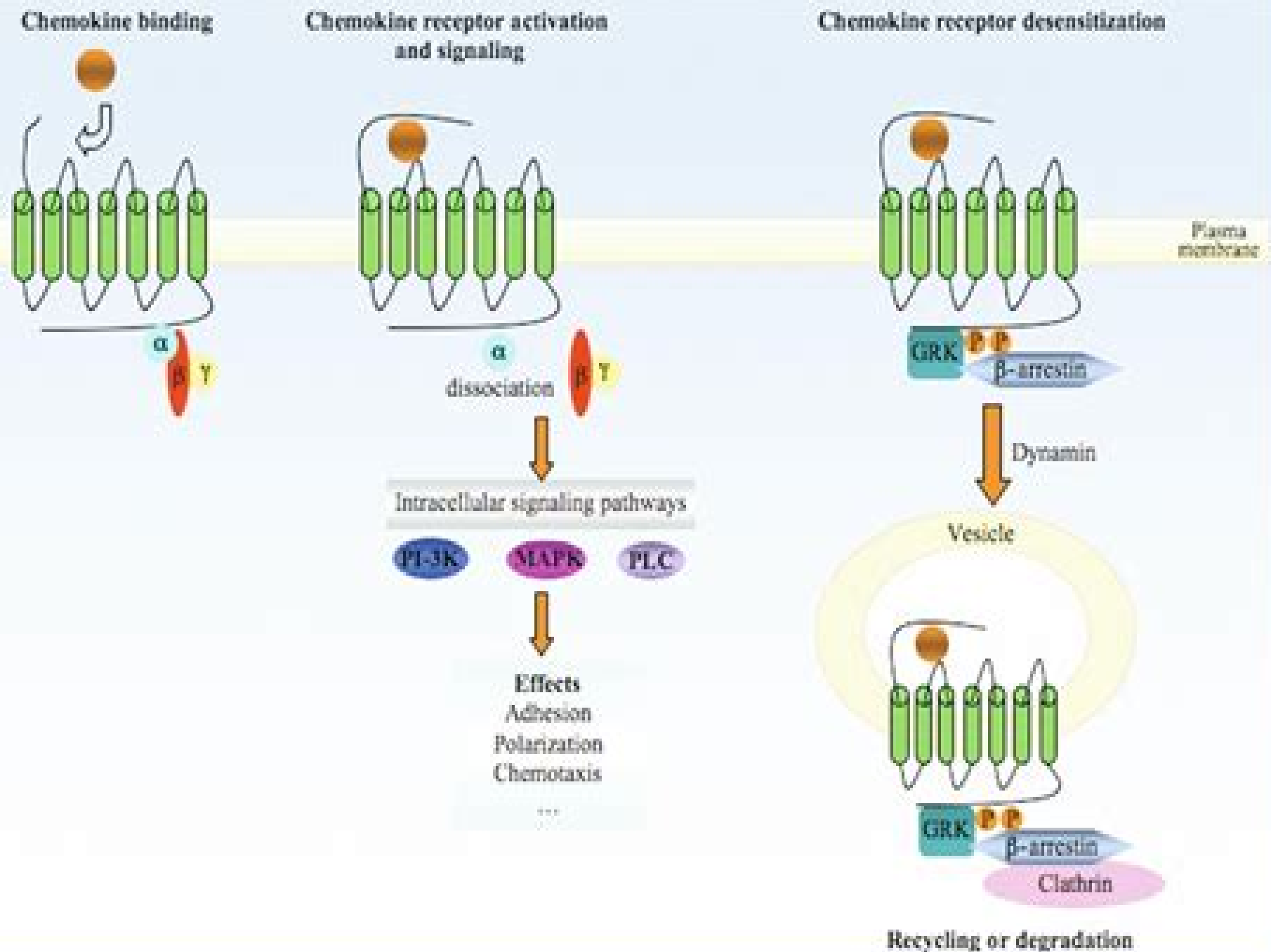


FIG. 2 Chemokine receptor signaling. Cell-surface ligand recognition and binding, chemokine receptor signaling starts with G protein

Chemokines Chemokine Receptors And Disease

Jeffrey K. Harrison, Nicholas W. Lukacs



Chemokines Chemokine Receptors And Disease:

Chemokines, Chemokine Receptors and Disease Lisa M. Schwiebert, 2005-09-02 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

Chemokine Receptors and NeuroAIDS Olimpia Meucci, 2009-12-02 Chemokine Receptors and NeuroAIDS Beyond the CCR5 Receptor Function and Links to Other Neuropathologies focuses on unresolved or emerging issues concerning the role of chemokine receptors in neuronal injury and HIV neuropathology including their ability to regulate fundamental neuronal and glial functions and their role in neurovirulence and neurotoxicity Although the importance of these molecules in the CNS physiology and pathology is now apparent these issues are still matter of debate and further research is required to design effective pharmacological agents that specifically target the brain chemokine system without major side effects To this end specific topics have been selected and are reviewed by international experts within the basic science medical community This book encourages investigation in the most controversial areas and fosters interaction between clinicians and basic scientists The book also increases awareness about differences in disease progression among different parts of the world as well as selected patient populations which may also help identifying novel therapeutic strategies

Inflammatory Disorders of the Nervous System Alireza Minagar, J. Steven Alexander, 2007-10-28 A cutting edge review of the fundamental biological principles underlying the more common inflammatory disorders of the nervous system The authors provide extensive updates on the latest findings concerning the mechanisms of inflammation and introduce such new concepts and methodologies as endothelial and leukocyte microparticles and gene microarray technology to help explain important links between the central nervous system CNS and general inflammatory processes Among the diseases examined from an inflammatory perspective are multiple sclerosis acute disseminated encephalomyelitis optic neuritis transverse myelitis CNS vasculitis neuropsychiatric systemic lupus erythematosus Alzheimer's disease and Parkinson's disease The role of the immune system in neuroinflammation is also explored in such disorders as neurosarcoidosis HIV Associated dementia and HTLV associated neurological disorders

Metastatic Diseases Sandeep Arora, Tapan Behl, Sukhbir Singh, Neelam Sharma, Saurabh Gupta, 2021-11-17 This insightful volume opens new horizons for exploring modern therapeutic entities and

emerging targets for combating the deadly disease of cancer The authors provide a review of cancer along with descriptions of its molecular level mechanisms and emphasize the role of promising new therapies including herbal therapies that can be utilized for the treatment of metastatic diseases The chapters look at specific approaches that have been researched and developed and that have almost reached the standardization stage such as intracellular mechanisms particularly phosphoprotein enriched astrocytes and transthyretin proteins CXCR4 autophagy inhibiting drugs spatiotemporal genetic analysis tyrosine kinase inhibitors and more Also considered are advances in diagnostic systems like intra vital microscopy and molecular imaging

Biochemistry and Molecular Biology Compendium Roger L. Lundblad, 2019-11-11 This book is an accessible resource offering practical information not found in more database oriented resources The first chapter lists acronyms with definitions and a glossary of terms and subjects used in biochemistry molecular biology biotechnology proteomics genomics and systems biology There follows chapters on chemicals employed in biochemistry and molecular biology complete with properties and structure drawings Researchers will find this book to be a valuable tool that will save them time as well as provide essential links to the roots of their science Key selling features Contains an extensive list of commonly used acronyms with definitions Offers a highly readable glossary for systems and techniques Provides comprehensive information for the validation of biotechnology assays and manufacturing processes Includes a list of Log P values water solubility and molecular weight for selected chemicals Gives a detailed listing of protease inhibitors and cocktails as well as a list of buffers

The Chemokine Receptors Jeffrey K. Harrison, Nicholas W. Lukacs, 2007-11-17 G protein coupled receptors GPCRs constitute a large superfamily of proteins that have been historically well represented as drug targets As such many of the volumes within The Receptors series have focused their attention on receptor subfamilies in the GPCR superfamily e g adrenergic serotonergic dopaminergic While chemokine receptors are relatively young in terms of the knowledge that has accumulated regarding their roles in physiology and pathology it is clear that this GPCR subfamily is dwarfing all others with respect to the total number of receptors and their functional diversity The breadth of the chemokine field was not fully appreciated in the early days of chemokine discovery when the characterization of these molecules was largely a curiosity of a small set of biologists primarily interested in inflammation Presently the field of chemokiology is quite diverse and it is nearly impossible to stay informed on all aspects of chemokine biology Nonetheless this book seeks to distill information regarding the molecular and cell biology physiology and pathology of chemokines and their receptors into a single volume providing an excellent resource for those entering the field or the most experienced chemokineologist seeking new insights In the chapters leading authorities consider structural and cellular aspects of chemokines and chemokine receptors and more notably discuss the roles of these molecules in a variety of disease states that transcend their classically defined roles in inflammation

Cumulated Index Medicus, 1999

Transplantation Immunology Research Trends Oliver N. Ulricker, 2007 In recent years transplantation immunology has evolved as a distinct field founded on the recognition that

rejection of a transplanted organ or tissue is mediated by immune mechanisms in the host responding to antigens in the donor tissue Included within the scope are T cell immunity Antigen presentation Alloreactivity Pancreas and islet cell transplantation Allogeneic bone marrow transplantation Models of tolerance induction Xenotransplantation and The swine leukocyte antigen SLA complex This book gathers the latest research in the exciting new field of transplantation immunology

National Institute of Allergy and Infectious Diseases, NIH Vassil St. Georgiev, 2010-07-29 National Institute of Allergy and Infectious Diseases NIH Volume III Intramural Research contains a broad overview of the research activity of the NIAID intramural scientists working in the Division of Intramural Research DIR and the Vaccine Research Center VRC both in the Bethesda campus and the Rocky Mountains Research Laboratories Each of these laboratories employs scientists internationally recognized as leaders in their fields of biomedical research This volume focuses on individual research contributions by internationally known scientists doing research in the NIAID laboratories **The Genealogy of a Gene**

Myles W. Jackson, 2015-03-06 The history of the CCR5 gene as a lens through which to view such issues as intellectual property Big Pharma personalized medicine and race and genomics In *The Genealogy of a Gene* Myles Jackson uses the story of the CCR5 gene to investigate the interrelationships among science technology and society Mapping the varied genealogy of CCR5 intellectual property natural selection Big and Small Pharma human diversity studies personalized medicine ancestry studies and race and genomics Jackson links a myriad of diverse topics The history of CCR5 from the 1990s to the present offers a vivid illustration of how intellectual property law has changed the conduct and content of scientific knowledge and the social political and ethical implications of such a transformation The CCR5 gene began as a small sequence of DNA became a patented product of a corporation and then when it was found to be an AIDS virus co receptor with a key role in the immune system it became part of the biomedical research world and a potential moneymaker for the pharmaceutical industry When it was further discovered that a mutation of the gene found in certain populations conferred near immunity to the AIDS virus questions about race and genetics arose Jackson describes these developments in the context of larger issues including the rise of biocapitalism the patentability of products of nature the difference between U S and European patenting approaches and the relevance of race and ethnicity to medical research

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