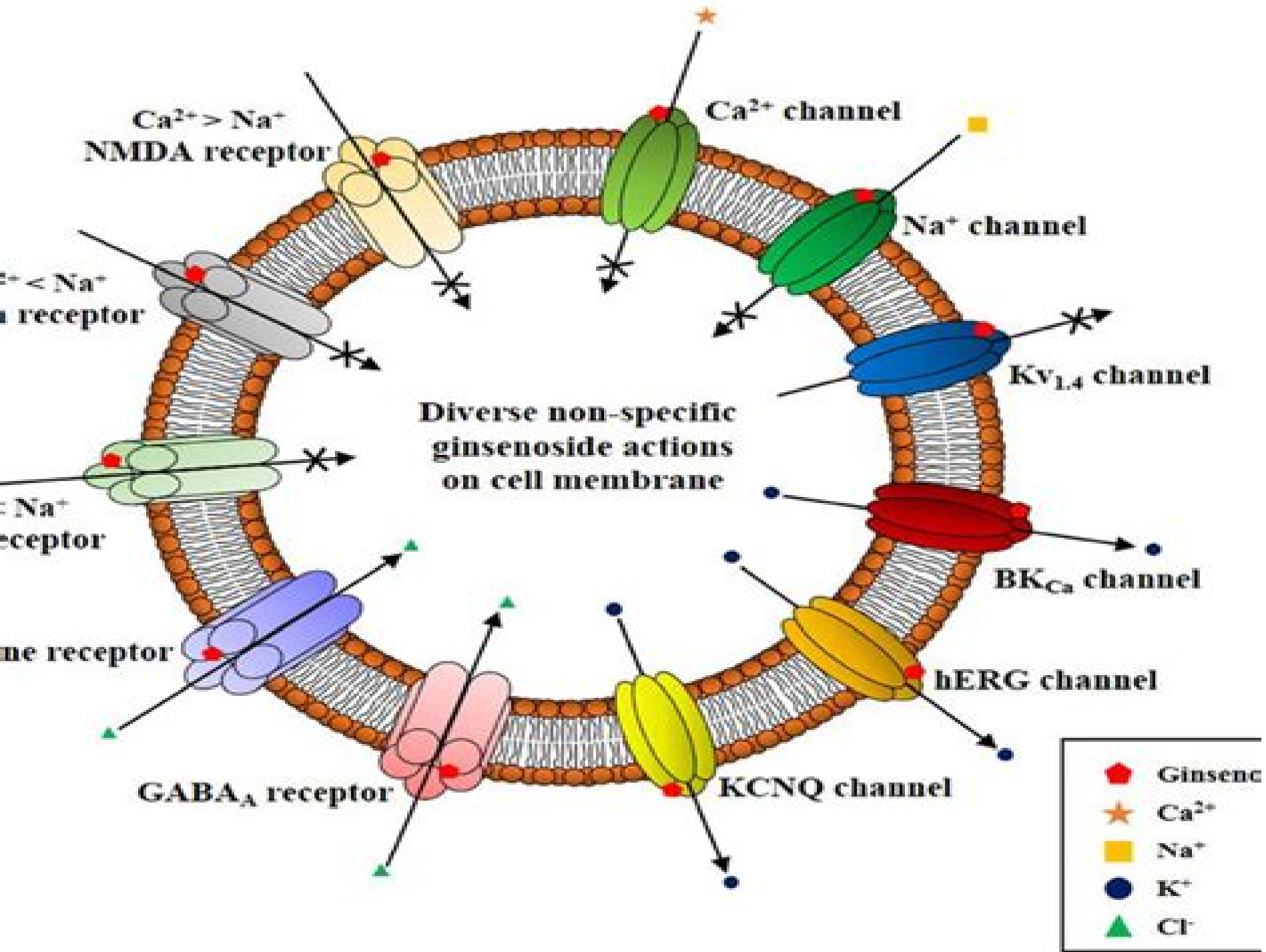




Receptor Regulations

R. J. Lefkowitz



Receptor Regulations:

Receptor Regulation R. J. Lefkowitz, 2013-03-09 ROBERT J LEFKOWITZ M D Receptor Regulation Receptors and Recognition Series B Volume 13 Edited by R J Lefkowitz Published in 1981 by Chapman and Hall 11 New Fetter Lane London EC4P 4EE 1981 Chapman and Hall The study of hormone and drug receptors has become one of the most exciting and rapidly moving areas of biomedical research Elucidation of receptor mechanisms and receptor structure has become the common goal of many scientists from diverse backgrounds The rapid advances achieved have been due in large part to the concentrated effort of workers from a variety of disciplines including classical pharmacology biochemistry endocrinology cell biology genetics and molecular biology among others Hormone and drug receptors appear to be of three major types which may be classified by their cellular locations Found in the plasma membranes of cells are the receptors for a wide variety of polypeptide hormones catecholamines and a variety of neurotransmitters Included within this group are those receptors coupled to the enzyme adenylate cyclase The second group of receptors are the soluble cytoplasmic receptors for the steroid hormones A third type of hormone receptor is the receptor for the thyroid hormones which appears to be confined to the nucleus Not only may these different types of receptor be distinguished in terms of their cellular locations but also by their mechanisms of action

Mechanisms of Receptor Regulation George Poste, Stanley T. Crooke, 2013-11-11 It is less than 80 years since John Newport Langley first proposed the role of receptive substances as the site of drug action from his observations on the effects of nicotine and curare at the myoneural junction The many advances in our understanding of receptor biology that have occurred during the intervening period mirror the extraordinary growth of knowledge in the biological sciences and in cell and molecular biology in particular Receptor biology in common with many other topics in contemporary biology is on the threshold of a transition from being a descriptive phenomenological discipline to one in which underlying mechanisms and regulatory principles can be defined with increasing precision This change together with the evolution of powerful analytical techniques and timely convergence of ideas from a number of previously separate fields of inquiry is generating an increasingly unified theoretical and experimental framework for the study of receptor function These themes and the mood of anticipation that a real understanding of receptor function in health and disease is emerging are reflected in this volume which summarizes the proceedings of the Second papers on Smith Kline French Research Symposium on New Horizons in Therapeutics held in Philadelphia in 1984

Regulation of G Protein Coupled Receptor Function and Expression Jeffrey L. Benovic, 1999-11-12 Recent advances in molecular and cell biology enabling the cloning expression and mutagenesis of signal transduction proteins has prompted an explosion of knowledge in the field of receptor regulation facilitating the discovery of new classes of regulatory proteins and providing a basis and means for manipulating receptor function through multiple intracellular targets This volume covers methods used to examine how the functions of receptors are regulated Understanding how to regulate the function and expression of these receptors is critical in determining how to

modify receptors and to translocating receptors away from the cell surface and its recycling Individual chapters focus on specific techniques used to characterize receptors epitope tagging measurement and analysis of receptor phosphorylation analysis of the kinetics of receptor desensitization and assessment of receptor G protein coupling the role of regulatory proteins receptor kinases and phosphatases arrestins in modulating receptor function and the methods used to measure receptor trafficking ligand binding immunofluorescence and expression transcriptional and translational regulation Covers a broad range of important concepts and methodologies which are current in the study of G protein coupled receptors GPCRs G protein coupled receptors make up over 40% of the current pharmacological targets Provides detailed protocols for executing various strategies and offers informed judgments as to what approaches are and aren't useful Volume Editor Jeffrey Benovic is a dominant world leader in the study of receptor regulation of GPCR kinases and is highly respected in the field

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Regulatory Peptides and Cognate Receptors Dietmar Richter,2013-06-05 In the last two decades our knowledge on regulatory peptides and their cognate receptors most of which are members of the seven transmembrane receptor families has increased enormously Regulatory peptides are small proteins which besides their hormonal functions in regulating cellular metabolism in various tissues may also act as neurotransmitters and thus they often carry the prefix neuro Many of the cognate receptors involved in transducing the peptidergic signal

across the cell membrane via a family of G proteins exist in multiple forms the number of which frequently exceeds that of the corresponding peptide ligands In this book various peptide receptor systems are discussed e g CRF somatostatin TRH opioid peptides vasopressin and oxytocin It also discusses new strategies such as reverse physiology to uncover new peptides and orphan receptors

G Protein-Coupled Receptors in Immune Response and Regulation ,2017-09-23 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 RGS 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

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Decoding **Receptor Regulations**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Receptor Regulations**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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