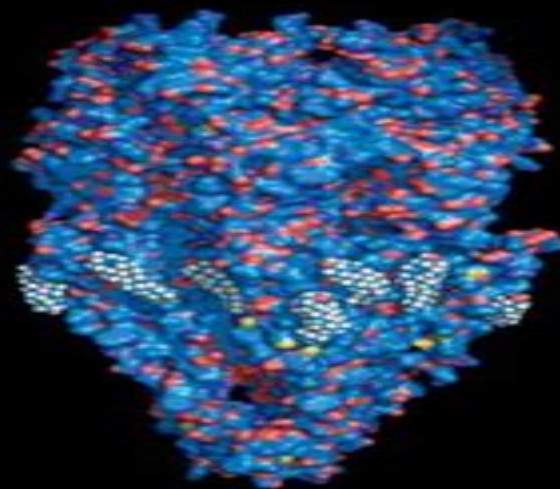
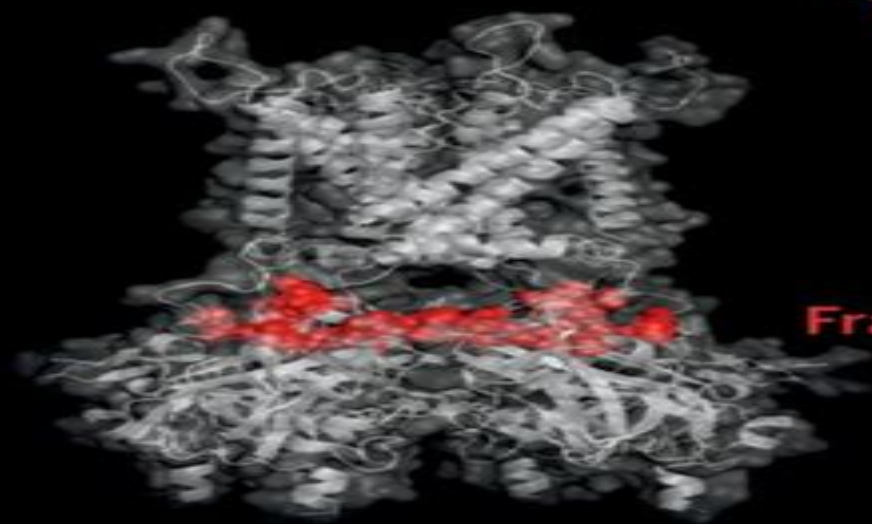


Cholesterol Regulation of Ion Channels and Receptors



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Cholesterol Regulation Of Ion Channels And Receptors

Anna N. Bukiya,Alex M. Dopico



Cholesterol Regulation Of Ion Channels And Receptors:

Cholesterol Regulation of Ion Channels and Receptors Irena Levitan, Francisco Barrantes, 2012-06-12 Examines new research on the role of cholesterol in regulating ion channels and receptors and its effect on health Drawing together and analyzing all the latest research findings this book explores the role of cholesterol in the regulation of ion channels and receptors including its pathological effects It is the first book to comprehensively describe the complex mechanisms by which cholesterol regulates two major classes of membrane proteins Moreover it sheds new light on how cholesterol affects essential cellular functions such as the contraction of the heart propagation of nerve impulses and regulation of blood pressure and kidney function Written and edited by leading pioneers in the field *Cholesterol Regulation of Ion Channels and Receptors* is divided into three parts Part I *Cholesterol Regulation of Membrane Properties* introduces the heterogeneity of cholesterol distribution in biological membranes and the physical and biological implications of the formation of cholesterol rich membrane domains Part II *Cholesterol Regulation of Ion Channels* examines the mechanisms underlying cholesterol sensitivities of ion channels including the regulation of ion channels by cholesterol as a boundary lipid Part III *Cholesterol Regulation of Receptors* explores the latest discoveries concerning how cholesterol regulates distinct types of receptors including G protein coupled receptors LDL and scavenger receptors and innate immune system receptors Increased levels of cholesterol represent a major health risk Understanding cholesterol regulation of ion channels and receptors is essential for facilitating the development of new therapeutic strategies to alleviate the impact of pathological cholesterol conditions With this book as their guide readers have access to the most current knowledge in the field

Sterol Regulation of Ion Channels, 2017-08-29 *Sterol Regulation of Ion Channels* Volume 80 the latest in the *Current Topics in Membranes* series provides outstanding content to the scientific community on relevant topics that relate to the broad field of membranes Topics of note in this new release include Membrane structure and general mechanisms of sterol regulation of ion channels the Regulation of ion channels by sterols as boundary lipids the Differential effects of sterols on ion channels specific vs non specific interactions the Structural determinants of cholesterol ion channels interactions and the Regulation of Ca²⁺ sensitive K channels by cholesterol and bile acids via distinct channel subunits and sites amongst other specialized chapters The serial is targeted towards scientists and researchers in biochemistry and molecular and cellular biology providing the necessary membrane research to assist them in discovering the current state of a particular field The authors and editors associated with the *Current Topics in Membranes* series are recognized as world renowned scientists in their respective fields making CTM one of the premier serials on membranes Contains original material both textual and illustrative that make it a very relevant reference Presented in a very comprehensive manner Ideal for both researchers in the field and general readers

Cholesterol Modulation of Protein Function Avia Rosenhouse-Dantsker, Anna N. Bukiya, 2019-01-16 In this book renowned scientists describe the role of steroid chirality and modification of lipid membrane physical properties in the

modulation of G protein coupled receptors and ion channels The application of commonly used technical approaches such as mass spectrometry and nuclear magnetic resonance transfer spectroscopy for studies on cholesterol distribution and alteration of lipid bilayer characteristics is also discussed This book offers comprehensive insights into the current understanding of cholesterol driven modulation of protein function via mechanisms that extend beyond lipid protein direct interactions In the first part the chapters introduce the reader to the use of the chemical derivatives of cholesterol as a valuable laboratory tool in the studies of cholesterol driven modulation of protein function In the second part examples of cholesterol induced changes in membrane physical characteristics are presented and discussed in light of their multifaceted contribution to the effect of cholesterol on protein function The book will be of interest to undergraduate and graduate students as well as basic science and medical researchers with a keen interest in the biophysical properties of cholesterol and physiological consequences of cholesterol presence in biological systems

Behavioral Neurobiology of Suicide and Self Harm Enrique Baca-Garcia,2020-12-21 This book reviews the recent research into biological aspects of suicide behavior and outlines each of the varied recent approaches to prevent suicide Suicidal behavior perhaps is the most complex behavior that combines biological social and psychological factors A new frontier and new opportunities are opening with the technologies of data acquisition and data analysis Personalized models based on digital phenotype could provide promising strategies for preventing suicide

Cell compartments and intracellular trafficking of lipids and proteins: Impact on biomedicine Silvana Zanlungo,Carlos Enrich,Volker Gerke,Emily Eden,Maria Isabel Colombo,2022-12-30

Mammalian Transient Receptor Potential (TRP) Cation Channels Bernd Nilius,Veit Flockerzi,2014-06-24 In this fast moving field the main goal of this volume is to provide up to date information on the molecular and functional properties and pharmacology of mammalian TRP channels Leading experts in the field describe properties of a single TRP protein channel or portray more general principles of TRP function and important pathological situations linked to mutations of TRP genes or their altered expression Thereby this volume on Transient Receptor Potential TRP Channels provides valuable information for readers with different expectations and backgrounds for those who are approaching this field of research as well as for those wanting to make a trip to TRPs

BK Channels: Integrators of Cellular Signals in Health and Disease Thomas M. Weiger,Alex Dopico,Anton Hermann,2017-11-10 Maxi calcium activated potassium channels BK are an amazing category of ion channels which are found in cellular plasma membranes as well as in membranes of intracellular organelles The function of these channels is to repolarize any excited membrane by passing a potassium outward current in response to depolarization and or increase in local calcium levels Thus voltage and calcium ions are involved in gating the channel under physiological conditions This dual activation makes them perfect sensors for many cellular events that require integration between intracellular calcium levels and electrical signals A plethora of physiological and pathophysiological functions such as membrane hyperpolarization modulation of synaptic transmission hormone secretion or mental deficiencies vaso regulation

epilepsies heart diseases myotonic dystrophies hypertension etc in almost all cells and tissues were reported for these channels BK channels are main targets for important ligands like alcohol and gaseous neurotransmitters such as NO CO or H₂S to name a few In the last years the molecular entities and mechanisms involved in modulation of BK channels have gained tremendous attention as the key role of these channels in cellular processes became increasingly recognized Indeed accessory proteins such as α and β subunits all serve to modulate the channel gating characteristics Moreover channel subunit expression and function is further tuned by phosphorylation dephosphorylation processes redox mechanisms and the lipid microenvironment of the BK channel protein complex This e book contains structural and functional aspects of BK channels channel modulation by a variety of agents and cellular components as well as the channel s relevance in health and disease

Cholesterol Anna N. Bukiya,Alex M. Dopico,2022-04-26 With Cholesterol Drs Anna Bukiya and Alex Dopico have compiled a comprehensive resource on biological and clinical aspects of cholesterol spanning biophysics and biochemistry as well as the latest pharmacological discoveries employed to tackle disorders associated with abnormal cholesterol levels Early chapters on basic biology offer guidance in cholesterol lab chemistry cholesterol metabolism and synthesis molecular evolution of cholesterol and sterols cholesterol peptides and cholesterol modulation Chapters on cellular and organismal development discuss cholesterol transport in blood lipoproteins and cholesterol metabolism cholesterol detection in the blood cellular cholesterol levels hypercholesterolemia and the role of cholesterol in early human development Pathophysiological specialists consider familial hypobetalipoproteinemia critical illness and cholesterol levels coronary artery disease CESD cholesterol and viral pathology cholesterol and neurodegenerative disorders and cholesterol and substance use disorders A final section examines pharmacology of drug delivery systems targeting cholesterol related disorders cholesterol receptors cholesterol reduction statins citrate lyase cyclodextrins and clinical management Cholesterol From Biophysics and Biochemistry to Pathology and Pharmacology empowers researchers students and clinicians across various disciplines to advance new cholesterol based studies improve clinical management and drive drug discovery Ties basic biology to clinical application and drug discovery Provides methods and protocols for lab based cholesterol research and clinical testing Examines the latest pharmacological discoveries employed to tackle cholesterol related disorders Includes chapter contributions from a wide range of specialists uniting various disciplines

Israel Ion Channel and Transporters Meeting 2019 Moran Rubinstein,Rami Yaka,Avi Priel,2021-07-21

Membranes in Pulmonary Vascular Disease ,2018-10-22 Membranes in Pulmonary Vascular Disease Volume 82 the latest release in the Current Topics in Membranes series highlights new advances in the field with this new volume presenting interesting chapters from recognized experts on topics such as Sphingolipids in Vascular Lung Disease Endothelial Glycocalyx Cholesterol Regulation of Endothelial Cell Calcium Homeostasis in Pulmonary Hypertension Mechanosensitive Channels and Gap Junction Channels in EC Endothelial Protrusions in Junctional Integrity and Barrier Function Cortical Actin Dynamics in Endothelial Permeability

Endothelial Microparticles and Exosomes Store Operated TRP Channels and Endothelial Responses and Caveolin and Endothelial NO signaling Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Current Topics in Membranes series Includes the latest information on Membranes in Pulmonary Vascular Disease

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