

Cholesterol Regulation Of Ion Channels And Receptors

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Introduction: cholesterol regulation of ion channels. Cholesterol is one of the major lipid components of the plasma membrane of most eukaryotic cells constituting 10–45 mol% with respect to other lipids (Yeagle, 1985, 1991). Normal physiological levels of cholesterol in the plasma membrane are essential to maintain membrane fluidity, thickness, and compartmentalization of the lipid domains that constitute scaffolds for multiple signaling platforms.

[Cholesterol binding to ion channels - PubMed Central \(PMC\)](#)

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.

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This book brings together the most up-to-date knowledge about the role of cholesterol in regulation of ion channels and receptors and the pathological implications of these effects. It provides a comprehensive critical overview of the field comprised of three sections focusing on the impact of cholesterol on membrane structure, cholesterol regulation of ion channels and cholesterol regulation of receptors.

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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.

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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 ...

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Specific cholesterol- ion channel interactions: Cholesterol is known to regulate multiple types of ion channels but molecular mechanisms and the structural determinants of these effects until ...

[Molecular mechanisms of cholesterol regulation of ion channels](#)

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 ...

[Sterol Regulation of Ion Channels, Volume 80 - 1st Edition](#)

Section 1: Membrane Structure and General Mechanisms of Sterol Regulation of Ion Channels; Section 2: Structural Determinants of Cholesterol-Ion Channels Interactions; Section 3: Emerging Topics of Cholesterol Regulation of Ion Channels; Receive an update when the latest chapters in this book series are published.

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Many types of ion channel localize to cholesterol and sphingolipid-enriched regions of the plasma membrane known as lipid microdomains or 'rafts'. The precise physiological role of these unique lipid microenvironments remains elusive due largely to difficulties associated with studying these potentially extremely small and dynamic domains.

Lipid microdomains and the regulation of ion channel function

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Numerous studies demonstrated that membrane cholesterol is a major regulator of ion channel function. The goal of this review is to discuss significant advances that have been recently achieved in elucidating the mechanisms responsible for cholesterol regulation of ion channels.

Frontiers | Cholesterol binding to ion channels | Physiology

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Potassium Channels in the Immune System. Regulation of Potassium Channels by Membrane Cholesterol and Lipid Raft Microdomains. Localization of Major Voltage-Dependent Kv1.3 and Kv1.5 Channels in Cholesterol-Rich Membrane Microdomains in Leukocytes. Mechanisms of Ion Channel Regulation: The Immunological Synapse. Acknowledgments. References

Regulation of K⁺ Channels by Cholesterol-Rich Membrane ...

Cholesterol is a key structural component and regulator of lipid raft signaling platforms critical for cell function. Such regulation may involve changes in the biophysical properties of lipid microdomains or direct protein-sterol interactions that alter the function of ion channels, receptors, enzymes, and membrane structural proteins.

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