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INTRODUCTION; 5.2 EFFECT OF CHOLESTEROL ON CARDIAC EXCITABILITY; 5.3 MECHANISMS OF CHOLESTEROL EFFECTS ON ION CHANNELS
5.4 CHOLESTEROL AS A TARGET FOR THERAPEUTIC AGENTSREFERENCES; 6 DIFFERENTIAL CONTRIBUTION OF BK SUBUNITS TO NONGENOMIC REGULATION OF CHANNEL FUNCTION BY STEROIDS; 6.1 BK CHANNELS AND STEROIDS; 6.2 CONCLUSIONS; ACKNOWLEDGMENTS; REFERENCES; 7 REGULATION OF K+ CHANNELS BY CHOLESTEROL-RICH MEMBRANE DOMAINS IN THE IMMUNE SYSTEM; 7.1 POTASSIUM CHANNELS IN THE IMMUNE SYSTEM; 7.2 REGULATION OF POTASSIUM CHANNELS BY MEMBRANE CHOLESTEROL AND LIPID RAFT MICRODOMAINS; 7.3 LOCALIZATION OF MAJOR VOLTAGE-DEPENDENT Kv1.3 AND Kv1.5 CHANNELS IN CHOLESTEROL-RICH MEMBRANE MICRODOMAINS IN LEUKOCYTES
7.4 MECHANISMS OF ION CHANNEL REGULATION: THE IMMUNOLOGICAL SYNAPSE

Sommario/riassunto

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, propagatio