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Ion Channels -- metabolism
Membrane Proteins - metabolism
Membrane Proteins -- metabolism
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Proteins
Membrane Glycoproteins
Sterols
Membrane Transport Proteins
Metabolism
Cholestenes
Amino Acids, Peptides, and Proteins
Carrier Proteins
Cholestanes
Membrane Lipids
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Steroids
Pharmaceutical Preparations
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Cholesterol
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Nota di contenuto	CHOLESTEROL REGULATION OF ION CHANNELS AND RECEPTORS; CONTENTS; FOREWORD; PREFACE; CONTRIBUTORS; I CHOLESTEROL REGULATION OF MEMBRANE PROPERTIES; 1 CHOLESTEROL TRAFFICKING AND DISTRIBUTION BETWEEN CELLULAR MEMBRANES; 1.1 CHOLESTEROL-AN ESSENTIAL LIPID FOR NORMAL CELL FUNCTION; 1.2 CHOLESTEROL METABOLISM, SENSING, AND DISTRIBUTION BETWEEN CELLULAR MEMBRANES; 1.3 HOW DOES CHOLESTEROL ENTER MAMMALIAN CELLS?; 1.4 VESICULAR CHOLESTEROL TRAFFICKING ALONG THE ENDOCYTIC AND SECRETORY PATHWAY; 1.5 NONVESICULAR CHOLESTEROL TRANSPORT; 1.6 CHOLESTEROL EFFLUX FROM CELLS; REFERENCES 2 CHOLESTEROL REGULATION OF MEMBRANE PROTEIN FUNCTION BY CHANGES IN BILAYER PHYSICAL PROPERTIES-AN ENERGETIC PERSPECTIVE2.1 INTRODUCTION; 2.2 CHOLESTEROL REGULATION OF MEMBRANE PROTEINS: POSSIBLE MECHANISMS; 2.3 PROTEIN REGULATION BY CHOLESTEROL-INDUCED CHANGES IN BILAYER PHYSICAL PROPERTIES; 2.4 CHOLESTEROL-INDUCED CHANGES IN DGIII bilayer - QUANTITATIVE ESTIMATES; 2.5 METHODS FOR IDENTIFYING

PROTEIN REGULATION BY CHANGES IN BILAYER PHYSICAL PROPERTIES;
2.6 CHOLESTEROL REGULATION OF MEMBRANE PROTEINS IN LIVING
CELLS
2.7 PHYSIOLOGICAL ROLE OF CHOLESTEROL-INDUCED CHANGES IN
BILAYER PHYSICAL PROPERTIES
2.8 CONCLUSION; REFERENCES; II
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STRUCTURAL DETERMINANTS OF CHOLESTEROL SENSITIVITY OF KIR
CHANNELS; 3.1 INTRODUCTION; 3.2 CHOLESTEROL SUPPRESSES Kir2
ACTIVITY IN VITRO AND IN VIVO; 3.3 EVIDENCE FOR SPECIFIC STEROL-
PROTEIN INTERACTIONS IN THE REGULATION OF Kir CHANNELS; 3.4
STRUCTURAL DETERMINANTS OF CHOLESTEROL SENSITIVITY OF Kir2
CHANNELS; 3.5 PHYSIOLOGICAL IMPACT OF CHOLESTEROL-INDUCED
SUPPRESSION OF KIR2 CHANNELS
3.6 CONCLUDING REMARKS AND FUTURE
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RAFT DOMAINS AND CAVEOLAE; 4.4 THE ROLE OF LIPID RAFT DOMAINS
IN THE REGULATION OF TRPC1; 4.5 MOLECULAR COMPLEXITY IN THE
REGULATION OF SOCE; 4.6 CONCLUSIONS; REFERENCES; 5
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INTRODUCTION; 5.2 EFFECT OF CHOLESTEROL ON CARDIAC
EXCITABILITY; 5.3 MECHANISMS OF CHOLESTEROL EFFECTS ON ION
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5.4 CHOLESTEROL AS A TARGET FOR THERAPEUTIC
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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
