1. Record Nr.   UNINA9910823465003321

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   Titolo   Cholesterol Regulation of Ion Channels and Receptors

   Pubbl/distr/stampa   Hoboken, : Wiley, 2012

   ISBN   9786613721150
   9781280879845
   128087984X
   9781118342305
   1118342305
   9781118342312
   1118342313
   9781118342282
   1118342283

   Edizione   [1st ed.]

   Descrizione fisica   1 online resource (324 p.)

   Altri autori (Persone)   BarrantesFrancisco

   Disciplina   572.5795
   612.1/2
   612.12

   Soggetti   Cholesterol - metabolism
   Cholesterol -- metabolism
   Ion Channels - metabolism
   Ion Channels -- metabolism
   Membrane Proteins - metabolism
   Membrane Proteins -- metabolism
   Cholesterol - Metabolism
   Ion channels - Metabolism
   Membrane proteins - Metabolism
   Proteins
   Membrane Glycoproteins
   Sterols
   Membrane Transport Proteins
   Metabolism
   Cholestenes
   Amino Acids, Peptides, and Proteins
   Carrier Proteins
   Cholestanes
   Membrane Lipids
   Lipids
   Steroids

Pharmaceutical Preparations
Polycyclic Compounds
Cholesterol
Ion Channels
Membrane Proteins
Human Anatomy & Physiology
Health & Biological Sciences
Animal Biochemistry

Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
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 PROPERTIES2.8 CONCLUSION; REFERENCES; II CHOLESTEROL REGULATION OF ION CHANNELS; 3 INSIGHTS INTO 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 DIRECTIONSACKNOWLEDGMENTS; REFERENCES; 4 ROLE OF LIPID RAFTS IN THE REGULATION OF STORE-OPERATED CA2+ CHANNELS; 4.1 INTRODUCTION; 4.2 MOLECULAR COMPONENTS OF SOCE; 4.3 LIPID 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 CHOLESTEROL REGULATION OF CARDIAC ION CHANNELS; 5.1

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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-
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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 |

2.	Record Nr.	UNINA9910416094403321
	Autore	Boone William J
	Titolo	Advances in Rasch Analyses in the Human Sciences / / by William J. Boone, John R. Staver
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
	ISBN	9783030434205
		3030434206
	Edizione	[1st ed. 2020.]
	Descrizione fisica	1 online resource (315 pages) : illustrations
	Disciplina	150.15195
	Soggetti	Education - Research
		Education
		Science - Study and teaching
		Social sciences - Statistical methods
		Educational psychology
		Research Methods in Education
		Science Education
		Statistics in Social Sciences, Humanities, Law, Education, Behavorial Sciences, Public Policy
		Educational Psychology
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Includes index.
	Nota di contenuto	Chapter 1. Introduction — For the Second Time -- Chapter 2. Principal Component Analysis of Residuals (PCAR) -- Chapter 3. Point Measure Correlation -- Chapter 4. Test Information Function (TIF) -- Chapter 5. Disattenuated Correlation -- Chapter 6. Understanding and Utilizing Item Characteristic Curves (ICC) to Further Evaluate the Functioning of a Scale -- Chapter 7. How Well Are Your Instrument Items Helping You to Discriminate and Communicate? -- Chapter 8. Partial Credit Part 1 -- Chapter 9. Partial Credit Part II (How to Anchor a Partial Credit Test) -- Chapter 10. The Hills…with the Partial Credit Model -- Chapter 11. Common Person Test Equating -- Chapter 12. Virtual Equating of Test Forms -- Chapter 13. Computing and Utilizing an Equating Constant to Explore Items for Linking a Test to an Item Bank -- Chapter 14. Rasch

Measurement Estimation Procedures -- Chapter 15. The Importance of Cross Plots for Your Rasch Analysis -- Chapter 16. Wright Maps (Part 3 and counting…) -- Chapter 17. Raschand Forms of Validity Evidence -- Chapter 18. Using Rasch Theory to Develop a Test and a Survey -- Chapter 19. Presentation and Explanation Techniques to Use in Rasch Articles -- Chapter 20. Some Concluding Thoughts.

Sommario/riassunto	This volume follows the publication of Rasch Analysis in the Human Sciences. This new book presents additional topics not discussed in the previous volume. It examines key topics such as partial credit analysis of data, common person linking, computing equating constants, investigating discrimination, evaluating dimensionality, how to better utilize Wright Maps, how to design tests and surveys using Rasch theory, and many more. The book includes activities which can be used to practice the theme of each chapter and to test the reader's understanding of Rasch techniques. Beginning and ending with a conversation between two students, each chapter provides clear step-by-step instructions as to how to conduct an analysis using the chapter theme. The chapters emphasize applications for the beginner learning Rasch and provide guidance for composing a write-up of an analysis for a presentation, paper, thesis or report. This book explores in detail many important yet often rarely discussed topics in Rasch. With its easy-to-read language and engaging format it reaches a wide audience of scientists, clinicians, students, researchers and psychometricians, providing a valuable toolkit for practical users of Rasch analysis. – Dr. Eva Fenwick, Clinical Research Fellow, Singapore Eye Research Institute (SERI) Assistant Professor, Duke-NUS Medical School, Singapore It is an easy to read book and provides immediate guidance for those wishing to conduct a Rasch analysis. The "conversations" between students in each chapter provides a welcome introduction to each topic. – Prof. Maik Walpuski, University Duisburg-Essen, Germany The lessons learned in their first book are extended by providing insightful demonstrations of some of the more complex concepts and techniques used in applying Rasch models. – Dr. Michael R. Peabody, National Association of Boards of Pharmacy, Illinois, USA I am amazed with the ability of these authors to communicate complicated knowledge, and the ability to make this highly complicated knowledge accessible to new learners guiding every step of the way. Through this book we get important knowledge about techniques and the different areas of use for Rasch methods in the human sciences This is truly an important book for students and researchers. – Prof. Charlotte Ringsmose, Aalborg University, Denmark.