Record Nr.	UNINA9910438020503321
Titolo	Electrical diseases of the heart [[electronic resource] ] . volume 1 : basic foundations and primary electrical diseases / / Ihor Gussak, Charles Antzelevitch, editors
Pubbl/distr/stampa	London, : Springer, 2013
ISBN	1-4471-4881-9
Edizione	[2nd ed. 2013.]
Descrizione fisica	1 online resource (659 p.)
Altri autori (Persone)	GussakIhor AntzelevitchCharles
Disciplina	616.128
Soggetti	Arrhythmia Heart - Diseases
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Basic Cardiac Electrophysiology- Promises Kept and Promises to Keep Basic Physiology of Ion Channel Function Developmental Aspects of the Electrophysiology of the Heart: Function Follows Form Anatomic and Histopathologic Characteristics of the Conductive Tissues of the Heart Neural Regulation of the Heart in Health and Disease Mechanisms of Cardiac Arrhythmia Mechanisms of Action of Antiarrhythmic Drugs in Ventricular Arrhythmias Mechanisms of Action of Antiarrhythmic Drugs in Atrial Fibrillation Mechano- Electrical Interactions and their Role in Electrical Function of the Heart Pathological Roles of the Cardiac Sodium Channel Late Current (late INa) Sodium Ion Channelopathies L-Type Calcium Channel Disease Nerve Sprouting, Defibrillation and Calcium Waves K+ Channelopathies (IKs, IKr, and Ito) Cardiac ATP-Sensitive Potassium Channels and Associated Channelopathies Cardiac KATP Channels in Health and Diseases Ca2+ Release Channels (Ryanodine Receptors) and Arrhythmogenesis Caveolae and Arrhythmogenesis Senescence and Arrhythmogenesis Comparisons of Substrates Responsible for Atrial versus Ventricular Fibrillation Single Nucleotide Polymorphisms in Health and Cardiac Disease Electrophysiological Remodeling in Heart Failure Ventricular Electrical Remodeling in Compensated Cardiac Hypertrophy

1.

	Physiological and Other Biological Pacemakers Cardiac Memory: From Electrical Curiosity to Clinical Diagnostic and Research Tool Heritable Arrhythmogenic Channelopathies, Primary Electrical Diseases, and Sudden Cardiac Death Celebrating the Challenge of Cardiac Arrhythmias Congenital Long QT Syndrome Brugada Syndrome Clinical and Genetic Aspects Brugada Syndrome: Cellular Mechanisms and Approaches to Therapy Early Repolarization Syndrome: Epidemiology, Genetics, and Risk Stratification Catecholaminergic Polymorphic Ventricular Tachycardia Andersen- Tawil and Timothy Syndromes Short QT Syndrome Progressive Cardiac Conduction Disease Genetics of Atrial Fibrillation Idiopathic Ventricular Fibrillation.
Sommario/riassunto	The past two decades have witnessed an explosion of knowledge and radical changes in our understanding of the molecular, ionic, genetic, and pharmacologic basis of electrical diseases of the heart. Electrical diseases of the heart are heritable arrhythmogenic clinical entities that may share common clinical and genetic features, yet may be distinctly different in their genesis, prognosis, and management. Notably, both congenital and acquired electrical diseases of the heart are receiving increased recognition as a result of important advances in genetic analysis. In this second edition of Electrical Diseases of the Heart, the Editors' goal has been to embrace and highlight the explosion of knowledge that our field has witnessed since the publication of the first edition. The approach continues to be one of bridging basic and clinical science in an attempt to advance meaningfully our understanding of heart disease and identify the knowledge gaps that exist. This volume covers the basic foundations and primary electrical diseases and with the companion volume provides the latest developments in the field of experimental and clinical cardiac electrophysiology, genetics, pharmacology and interventional therapies of various clinical arrhythmogenic entities. Residents, fellows and physicians in cardiology and electrophysiology will gain valuable insight into the latest developments in the field of cardiac electrophysiology and clinical electrocardiology by reading this book, including expert review of the genetic and epidemiologic considerations, diagnostic and therapeutic modalities of the newly discovered clinical syndromes and electrocardiographic phenomena, and their correlation with the most recent advances in the basic science.