

1. Record Nr.	UNINA9910789320203321
Autore	Katz Arnold M
Titolo	Physiology of the heart // Arnold M. Katz
Pubbl/distr/stampa	Philadelphia : , : Wolters Kluwer Health/Lippincott Williams & Wilkins Health, , [2011] ©2011
ISBN	1-4511-4912-3 1-4511-2497-X 1-4698-7688-4 1-60831-171-6
Edizione	[Fifth edition.]
Descrizione fisica	1 online resource (592 p.)
Disciplina	612.1/7
Soggetti	Heart - Physiology Heart - Pathophysiology
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	1. Structure of the Heart and Cardiac Muscle 2. Energetics and Energy Production 3. Energy Utilization (Work and Heat) 4. The Contractile Proteins 5. The Cytoskeleton 6. Active State, Length-Tension Relationship, Cardiac Mechanics 7. Excitation-Contraction Coupling: Extracellular and Intracellular Calcium Cycles 8. Signal Transduction: Functional Signaling 9. Signal Transduction: Proliferative Signaling 10. Regulation of Cardiac Muscle Performance 11. The Heart as a Muscular Pump 12. The Working Heart 13. Cardiac Ion Channels 14. The Cardiac Action Potential 15. The Electrocardiogram 16. Arrhythmias 17. The Ischemic Heart 18. Heart Failure.
Sommario/riassunto	"Dr. Arnold Katz's internationally acclaimed classic is now in its thoroughly revised Fifth Edition, incorporating the latest molecular biology research and extensively exploring the clinical applications of these findings. In the single authored, expert voice that is this book's unique strength, Dr. Katz provides a comprehensive overview of the physiological and biophysical basis of cardiac function, beginning with structure and proceeding to biochemistry, biophysics, and pathophysiology in arrhythmias, ischemia, and heart failure. Emphasis

is on the interrelationships of basic processes among the cell, cardiac muscle function, and the biophysics of contractile and electrical behavior. This edition includes new material on cell signaling and molecular biology"--Provided by publisher.
