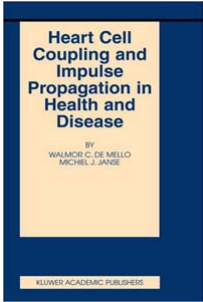


HEART CELL COUPLING AND IMPULSE PROPAGATION IN HEALTH AND DISEASE

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	ISBN: 9781402071829
	Páginas: 488
	Año: 2003
	Edición: 1
	Idioma: Ingles
	Disponible: De 2 a 3 Semanas
Precio: 238.00 226.10	Iva no incluido

DESCRIPTION:

Heart Cell Coupling and Impulse Propagation in Health and Disease includes an up-to-date review on how heart cells communicate and impulse propagation under normal as well as under pathological conditions. The complexity of intercellular coupling and impulse propagation is discussed, providing the reader with a broad view of the importance of these processes and how they contribute to the generation of cardiac arrhythmias and heart failure. The different aspects and intricacies of heart cell communication is discussed by different authors, each one an expert in their own field.

The present publication will be of interest to cardiologists, electrophysiologists, heart physiologists, cardiac pharmacologists, biophysicists, and cell or molecular biologists.

CONTENTS:

1. The Cardiac Syncytium. An Overview
2. Connexin Interacting Proteins
3. Cardiovascular Connexins: Molecular Composition and Biochemical Regulation
4. Heteromultimeric Gap Junction Channels: A Connection with Cardiac Physiology and Pathology
5. Intercellular Calcium Signaling In The Cardiovascular System
6. Biophysics of Gap Junction Channels
7. Phosphorylation of Connexin 43 and Regulation Of Cardiac Gap Junction
8. The Sinoatrial Node. Gap Junction Distribution And Impulse Propagation
9. Inward and Outward Currents and Cardiac Discontinuous Conduction
10. Cellular Electrical Uncoupling During Ischemia
11. Cell Coupling and Impulse Propagation In the Failing Heart: The Role of the Renin Angiotensin System
12. Gap Junctions and Connexin Expression in Human Heart Disease
13. Ionic Channels and Fibrillation
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