



## **Basis and Treatment of Cardiac Arrhythmias (Handbook of Experimental Pharmacology)**

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# Basis and Treatment of Cardiac Arrhythmias (Handbook of Experimental Pharmacology)

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In the past decade, major progress has been made in understanding mechanisms of arrhythmias. This progress stems from much-improved experimental, genetic, and computational techniques that have helped to clarify the roles of specific proteins in the cardiac cycle, including ion channels, pumps, -changer, adaptor proteins, cell-surface receptors, and contractile proteins. The interactions of these components, and their individual potential as therapeutic targets, have also been studied in detail, via an array of new imaging and sophisticated experimental modalities. The past 10 years have also led to the realization that genetics plays a predominant role in the development of lethal arrhythmias. Many of the topics discussed in this text reflect very recently undertaken research directions including the genetics of arrhythmias, cell signaling molecules as potential therapeutic targets, and trafficking to the membrane. These new approaches and implementations of anti-arrhythmic therapy derive from many decades of research as outlined in the first chapter by the distinguished professors Michael Rosen (Columbia University) and Michiel Janse (University of Amsterdam). The text covers changes in approaches to arrhythmia therapy over time, in multiple cardiac regions, and over many scales, from gene to protein to cell to tissue to organ.

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