

CARDIAC ELECTROPHYSIOLOGY

From Cell to Bedside

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Preface

Foreword

When I was a young novice in the field of cardiac physiology there were many who held that if a piece of work had any relation to clinical application it was not "pure" science and should be scorned. And there were many clinicians who held a very low opinion of laboratory studies, believing that only the bedside provided the answers.

Now, 50 years later, I have seen a refreshing community of interests between the two. I hope I have been able to contribute in small part to the current understanding. The unifying process is exemplified by the present collection of essays, with its title *Cardiac Electrophysiology From Cell to Bedside*. I am pleased that my dear friends, the editors, asked me to provide a brief introduction to this remarkable volume.

GORDON K. MOE



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Preface

In the preface to *Cardiac Electrophysiology and Arrhythmias* (Grune & Stratton, 1985), we stated that our two major objectives were to honor our dear friend and mentor, Gordon K. Moe, M.D., Ph.D., and to publish the results of a symposium (which Gordon called the greatest retirement bash ever) in a book that we hope would become the "latest published word" in many areas of basic and clinical cardiac electrophysiology. We hope that that book achieved both objectives.

The objectives for this book are identical. Only this time we are honoring the memory of Gordon K. Moe, M.D., Ph.D., who died October 24, 1989. Once again we hope that this book will stand as an authoritative reference text on basic and clinical cardiac electrophysiology for some time to come, and once again we dedicate it to Gordon K. Moe, M.D., Ph.D.

We have attempted to put together as complete a volume on cardiac electrophysiology as possible and therefore have included information spanning work from very basic electrophysiological research to clinical electrocardiography, consistent with the subtitle *From Cell to Bedside*. This has made for a very large text, but we decided to err by being very complete, rather than by omitting topics. We would like to thank the many contributors who sent us excellent reviews that often included their own original, previously unpublished material.

In addition to the contributors, we would like to thank our wives, Joan Zipes and Paloma Jalife, for accepting the many hours that went into preparing this volume, and for their encouragement. Finally, in spirit, we would like to thank Gordon for being not only our friend and teacher but also the friend and teacher of so many participants in this volume and for his many important scientific contributions to our knowledge of cardiac electrophysiology.

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Resolution of Discontinuous Versus Continuous Propagation: Microscopic Mapping of the Derivatives of Extracellular Potential Waveforms

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Limitations in the Use of One-Dimensional Electrophysiological Models for Multicellular (Cardiac) Tissue

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Atrioventricular Node Reentry: Evidence of Reentry and Functional Properties of Fast and Slow Pathways

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Mechanisms of Ventricular Tachycardia Unassociated with Coronary Artery Disease

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Purified Proteins from Cardiac Sarcoplasmic Reticulum that Function as Calcium Channels

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Clinical and Experimental Pathophysiology of Sudden Cardiac Death

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Catheter Recordings of Accessory Atrioventricular Pathway Activation: Sites of Conduction Block in Accessory Atrioventricular Pathways: Basis for Concealed Accessory Pathways

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Sites of Conduction Block in Accessory Atrioventricular Pathways: Basis for Concealed Accessory Pathways

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The Clinical Presentation of Paroxysmal Supraventricular Tachycardia in Untreated Patients

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Myocardial Anisotropy: Basic Electrophysiology and Role in Cardiac Arrhythmias

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Autonomic Interactions in Cardiac Control: Role of Neuropeptides

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Cellular Mechanisms of Reperfusion Arrhythmias: Studies in Isolated Ventricular Tissue Preparations

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Atrial and Junctional Tachycardias: Clinical Presentation, Course, and Therapy

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Sympathetic Control of Cardiac Electrical Activity

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Application of Lasers for Arrhythmia Ablation

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Noninvasive Detection of Patients Prone to Life-Threatening Ventricular Arrhythmias by Frequency Analysis of Electrocardiographic Signals

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Epicardium Versus Endocardium: Electrophysiology and Pharmacology

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Variants of Pre-excitation: Update 1989; Application of Lasers for Arrhythmia Ablation

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Epicardium Versus Endocardium: Electrophysiology and Pharmacology

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Ventricular Tachycardia: Clinical Presentation, Course, and Therapy

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Noninvasive Detection of Patients Prone to Life-Threatening Ventricular Arrhythmias by Frequency Analysis of Electrocardiographic Signals

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Mechanisms of Ventricular Tachycardia Unassociated with Coronary Artery Disease

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Invasive Electrophysiological Studies

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Experimental and Mathematical Observations on Pacemaker Interactions as a Mechanism of Synchronization in the Sinoatrial Node

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The Clinical Presentation of Paroxysmal Supraventricular Tachycardia in Untreated Patients

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Clinical Role of Exercise Testing for Detection, Evaluation, and Treatment of Ventricular Arrhythmias

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Electrophysiological Spectrum of Wide QRS Complex Tachycardia

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Surgery for the Wolff-Parkinson-White Syndrome: The Epicardial Approach

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Ca Release and Monovalent Ion Channels in Sarcoplasmic Reticulum

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Automated Detection of Tachycardias by Antitachycardia Devices

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Experimental and Mathematical Observations on Pacemaker Interactions as a Mechanism of Synchronization in the Sinoatrial Node

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Atrial Fibrillation and Flutter

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Sinus Node Dysfunction: Pathophysiology, Clinical Features, Evaluation, and Treatment

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The Autonomic Nervous System and the Heart: Basis for Understanding Interactions and Effects on Arrhythmia Development

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Cardiac Arrest*

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Passive Electrical Properties of Cardiac Tissue

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Nervous Control of the Heart: Anatomy and Pathophysiology

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Purified Proteins from Cardiac Sarcoplasmic Reticulum that Function as Calcium Channels

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Sinus Node Dysfunction: Pathophysiology, Clinical Features, Evaluation, and Treatment

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