

# The Myocardial Cell: New Concepts for the Clinical Cardiologist

THE GROWING BODY of research into the ultrastructure of the myocardial cell and the function of subcellular systems in the heart has reached proportions that make it both useful and pertinent to bring important new concepts in this area to the attention of the clinical cardiologist. Work on myocardial ultrastructure is no longer the province of the cellular anatomist and physiologist; increasingly, the clinical literature contains studies describing the cellular anatomy of both normal human myocardium and that of diseased hearts. Invariably, of course, such studies draw inferences about the mechanism of myocardial dysfunction on the basis of the ultrastructural changes observed.

## Preservation of Tissue

Myocardium, like all contractile tissue, shortens in response to the stimulus of a sudden fall in environmental temperature. Maintenance of the resting length of the tissue prior to immersion in iced preservative, therefore, must be routine. When this is not done, the muscle shortens vigorously on making contact with the cold solution. As a consequence, all intracellular dimensions are distorted and certain ultrastructural features are even obliterated. If tissue is in contracture, no sarcomeric I bands will be visible in the section. The lumina of intracellular tubular structures will appear dilated, mitochondrial numbers will appear increased per unit area of the cell, and the cell membrane will be thrown up into folds, as will the nuclear envelope.

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If pieces of tissue placed in preservative are not sufficiently small to insure rapid and uniform penetration of the fixative, or if tissue is not preserved within minutes of the death of the experimental animal, sarcomeric Z bands will appear fuzzy and thickened and mitochondria will appear vacuolated. The nuclear contents will be largely obliterated, with peripheral clumping of chromatin just under the nuclear membrane. These features, if present, do not reflect pathology, then, but are artifacts and, clearly, cannot be interpreted to be the consequence of disease. Several workers have outlined the changes that occur in the cell simply as a consequence of postmortem changes.<sup>1-2</sup>

## Normal Anatomy of the Myofiber and the Function of Subcellular Systems in the Cell

The myofiber has, by virtue of the fact that it is a striated muscle cell, certain characteristic physiologic properties. It is capable of excitation and, indeed, depending on the type of cell, can spontaneously depolarize in a periodic fashion, i.e., it has pacemaking ability. The process of excitation and, if present, spontaneous depolarization depends on the properties of the cell membrane or sarcolemma and its derivatives in the cell, the transverse tubular system, and the intercalated disc.

Excitation has a definite mechanical consequence in the normal myofiber, i.e., it engenders a contractile event. In other words, excitation is coupled to contraction so that the cell shortens in response to stimulation. Contraction is achieved by the shortening of the contractile unit (or sarcomeres) that fill the cell in orderly lines called myofibrils and which make up the bulk of the volume of the myofiber. The contraction of individual sarcomeres occurs when the calcium concentration in the area of the myofilaments making

# Myocardial Cell For The Clinical Cardiologist

**Joseph G. Murphy, Nandan S.  
Anavekar, Barry A. Boilson, Margaret A.  
Lloyd, Rekha Mankad, Raymond C.  
Shields**

## **Myocardial Cell For The Clinical Cardiologist:**

*The Myocardial Cell for the Clinical Cardiologist* Marianne J. Legato, 1973      Mayo Clinic Cardiology 5th Edition Joseph G. Murphy, Nandan S. Anavekar, Barry A. Boilson, Margaret A. Lloyd, Rekha Mankad, Raymond C. Shields, 2024 This textbook is designed for physicians in training be they budding cardiologists internists or related disciplines It caters particularly to those preparing for qualifying boards and examinations who want a manageable amount of high value information about the heart in an easily digestible format      **Cardiac Muscle** E.D. Canale, Gordon R Campbell, J.J. Smolich, 2012-12-06 In the ever expanding field of heart research the needs of established re searchers students and general readers can vary considerably making it difficult therefore to cater for all types of audience within a single volume The aim of this book has been to provide a comprehensive and up to date review of the structure of the heart including its cell biology The ultrastructure of the working myocardium and all portions of the conduction system together with their development is covered in detail Also included are chapters on the morphometry of cardiac muscle the innervation of the heart cardiac hyper trophy and regeneration and the development of the coronary circulation A detailed review of cardiac muscle in cell culture is also provided It is to be hoped that readers whatever their background will find the information contained herein useful for their needs This work was supported by a grant from the National Heart Foundation of Australia The authors wish to gratefully acknowledge the following people for their invaluable assistance in preparation of the manuscript Professor Yasuo Uehara D r Takashi Fujiwara Dr Peter Baluk Dr Seiji Matsuda and Bill Kaegi for providing unpublished micrographs Fabian Bowers Patricia Murphy and Janet Bennett for typing and Lucy Popadyne Nella Puglisi Maggie Mackie Mary Delafield and Liana Butera for assistance with references and figure preparation THE AUTHORS Contents A General Introduction 1 Morphology of Cardiac Muscle 8 B      *Current Concepts in Clinical Cardiology* J. H. K. Vogel, 1980-08-26      **National Library of Medicine Current Catalog** National Library of Medicine (U.S.), 1971 First multi year cumulation covers six years 1965 70      **Clinical Cardiology** Maurice Sokolow, Malcolm B. McIlroy, 1981      Heart Physiology Lionel H. Opie, 2004 Thoroughly revised and updated this Fourth Edition is the only current book that integrates cellular and subcellular elements of cardiovascular physiology in the analysis of physiologic and pathophysiologic responses In straightforward terms with more than 600 diagrams and illustrations the book explains the key principles crucial to understanding how the cardiovascular system and its components function and malfunction For this edition Dr Opie has enlisted eight internationally eminent co authors and added a new chapter on cell signaling The chapters on physiology of the ECG and arrhythmias contain many more ECGs More than half of the illustrations including 12 color plates are new      Mayo Clinic Cardiology Concise Textbook and Mayo Clinic Cardiology Board Review Questions & Answers Joseph G. Murphy, Margaret A. Lloyd, 2007-12-14 Master the cardiology boards and save money with our new convenient Mayo Clinic Cardiology Course Pack Packed with hundreds of board focused questions this new course pack saves over 19 00 and includes the complete Mayo Clinic Cardiology Concise

Textbook Third Edition PLUS the Mayo Clinic Cardiology Board Review Questions and Answers Focus      **Zipes and Jalife's Cardiac Electrophysiology: From Cell to Bedside, E-Book** Jose Jalife, William Gregory Stevenson, 2021-12-16 Fully updated from cover to cover Zipes and Jalife's Cardiac Electrophysiology From Cell to Bedside 8th Edition provides the comprehensive multidisciplinary coverage you need from new knowledge in basic science to the latest clinical advances in the field Drs Jos Jalife and William Gregory Stevenson lead a team of global experts who provide cutting edge content and step by step instructions for all aspects of cardiac electrophysiology Packs each chapter with the latest information necessary for optimal basic research as well as patient care Covers new technologies such as CRISPR protein research improved cardiac imaging optical mapping and wearable devices Contains significant updates in the areas of molecular biology and genetics iPSCs induced pluripotent stem cells embryonic stem cells precision medicine antiarrhythmic drug therapy cardiac mapping with advanced techniques and ablation technologies including stereotactic radioablation Includes 47 new chapters covering both basic science and clinical topics Discusses extensive recent progress in the understanding diagnosis and management of arrhythmias including new clinical insights on atrial fibrillation and stroke prevention new advances in the understanding of ventricular arrhythmias in genetic disease and advances in implantable devices and infection management Features 1 600 high quality photographs anatomic and radiographic images electrocardiograms tables algorithms and more with additional figures tables and videos online Recipient of a 2018 Highly Commended award from the British Medical Association Enhanced eBook version included with purchase Your enhanced eBook allows you to access all of the text figures and references from the book on a variety of devices      *Cardiac Electrophysiology: From Cell to Bedside E-Book* Douglas P. Zipes, Jose Jalife, William Gregory Stevenson, 2017-05-13 Rapid advancements in cardiac electrophysiology require today's health care scientists and practitioners to stay up to date with new information both at the bench and at the bedside The fully revised 7th Edition of Cardiac Electrophysiology From Cell to Bedside by Drs Douglas Zipes Jose Jalife and William Stevenson provides the comprehensive multidisciplinary coverage you need including the underlying basic science and the latest clinical advances in the field An attractive full color design features color photos tables flow charts ECGs and more All chapters have been significantly revised and updated by global leaders in the field including 19 new chapters covering both basic and clinical topics New topics include advances in basic science as well as recent clinical technology such as leadless pacemakers catheter ablation as a new class I recommendation for atrial fibrillation after failed medical therapy current cardiac drugs and techniques and a new video library covering topics that range from basic mapping for the researcher to clinical use implantations Each chapter is packed with the latest information necessary for optimal basic research as well as patient care and additional figures tables and videos are readily available online New editor William G Stevenson highly regarded in the EP community brings a fresh perspective to this award winning text      **Clinical Cardiology**, 1986      **Cardiac Electrophysiology: from Cell to Bedside** Douglas P. Zipes, Jose Jalife, 2013-10-25 Cardiac Electrophysiology From Cell to

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**CSI Cardiology Update 2018** Kewal C Goswami, 2019-02-28 SECTION 1 CORONARY ARTERY DISEASE RISK FACTORS SECTION 2 LIPIDS AND DIET SECTION 3 DIABETES AND HEART SECTION 4 HYPERTENSION SECTION 5 CHRONIC CORONARY ARTERY DISEASE SECTION 6 ACUTE CORONARY SYNDROMES SECTION 7 ST SEGMENT ELEVATION MYOCARDIAL INFARCTION SECTION 8 DUAL ANTIPLATELET THERAPY SECTION 9 CORONARY INTERVENTION SECTION 10 INTERVENTION IN STRUCTURAL HEART DISEASE SECTION 11 CARDIAC IMAGING SECTION 12 CARDIOVASCULAR PHARMACOLOGY SECTION 13 HEART FAILURE SECTION 14 SYNCOPE SECTION 15 ATRIAL FIBRILLATION SECTION 16 VENTRICULAR ARRHYTHMIAS SECTION 17 CARDIAC IMPLANTABLE ELECTRONIC

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SECTION 21 WOMEN AND HEART DISEASE SECTION 22 SYSTEMIC DISEASES AND HEART SECTION 23 EMERGING  
ISSUES IN CARDIOLOGY SECTION 24 MISCELLANEOUS Index      **The Washington Manual Cardiology Subspecialty**  
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