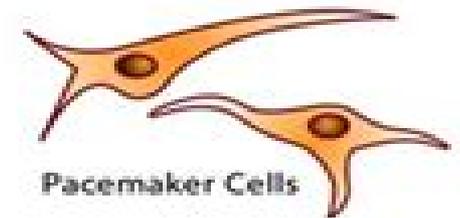
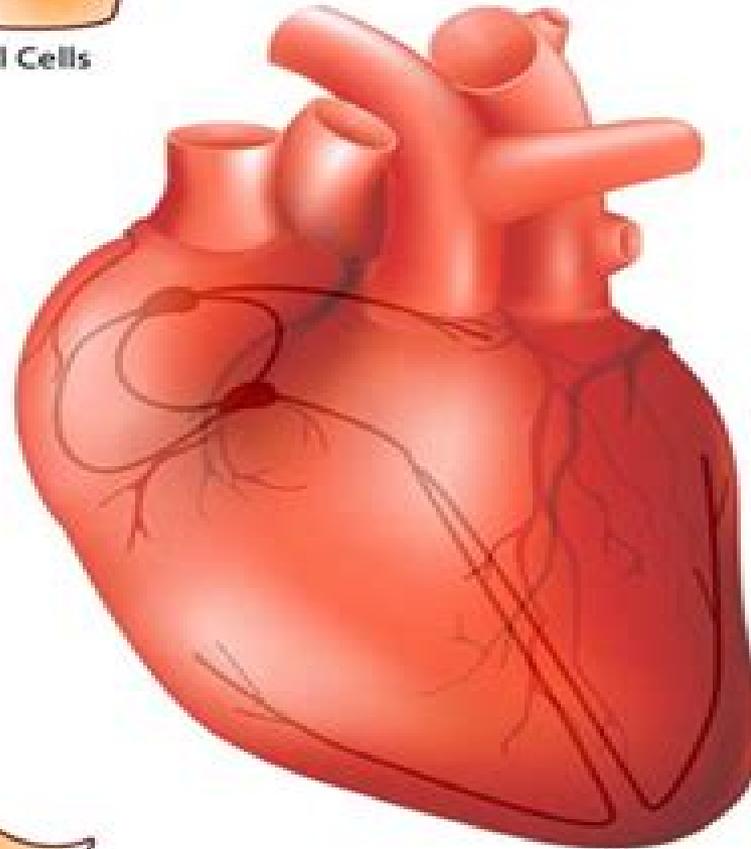
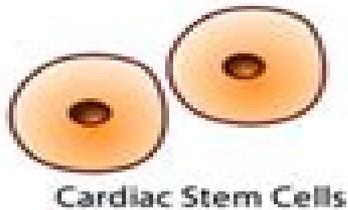
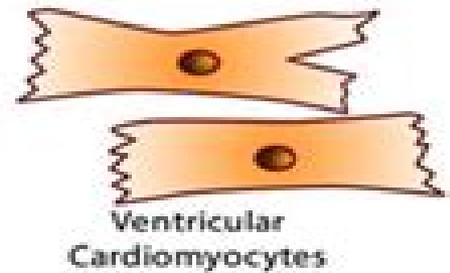
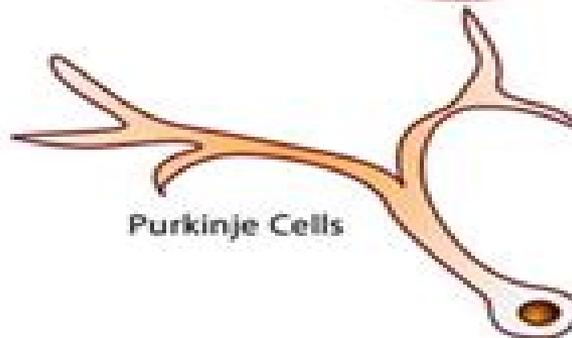


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Cardiac Cell Biology

Heribert Schunkert, G.A.J. Riegger



Cardiac Cell Biology:

Cardiac Cell Biology Elissavet Kardami, Larry Hryshko, Nasrin Meseali, 2003-02-28 Cardiac cell biology has come of age Recognition of activated or modified signaling molecules by specific antibodies new selective inhibitors and fluorescent fusion tags are but a few of the tools used to dissect signaling pathways and cross talk mechanisms that may eventually allow rational drug design Understanding the regulation of cardiac hypertrophy in all its complexity remains a fundamental goal of cardiac research Since the advancement of adenovirally mediated gene transfer transfection efficiency is no longer a limiting factor in the study of cardiomyocytes A limiting factor in considering cell transplantation as a strategy to repair the damaged heart is cell availability at the right time Cardiac gap junctions intercellular communication channels that allow electrical and metabolic coupling and play an important role in arrhythmogenesis are now understood to be exquisite sensors of cardiac change The reports in this volume include elegant studies that made use of cutting edge technological advances and many specialized reagents to address these issues **Cardiac Cell Biology**, 2003 *Cardiac Cell Biology* Elissavet Kardami, Larry Hryshko, Nasrin Meseali, 2013-06-29 Cardiac cell biology has come of age Recognition of activated or modified signaling molecules by specific antibodies new selective inhibitors and fluorescent fusion tags are but a few of the tools used to dissect signaling pathways and cross talk mechanisms that may eventually allow rational drug design Understanding the regulation of cardiac hypertrophy in all its complexity remains a fundamental goal of cardiac research Since the advancement of adenovirally mediated gene transfer transfection efficiency is no longer a limiting factor in the study of cardiomyocytes A limiting factor in considering cell transplantation as a strategy to repair the damaged heart is cell availability at the right time Cardiac gap junctions intercellular communication channels that allow electrical and metabolic coupling and play an important role in arrhythmogenesis are now understood to be exquisite sensors of cardiac change The reports in this volume include elegant studies that made use of cutting edge technological advances and many specialized reagents to address these issues **Cardiac Cytoarchitecture** Elisabeth Ehler, 2015-03-03 This book presents a collection of expert reviews on different subcellular compartments of the cardiomyocyte addressing fundamental questions such as how these compartments are assembled during development how they are changed in and by disease and which signaling pathways have been implicated in these processes so far As such it offers the first overview of the cell biology of heart disease of its kind addressing the needs of cell biology students specializing in vascular and cardiac biology as well as those of cardiologists and researchers in the field of cell biology **Regenerating the Heart** Ira S. Cohen, Glenn R. Gaudette, 2011-03-23 Medical research made huge strides in treating heart disease in the 20th century from drug eluting stents to automatic internal defibrillators Public awareness of the dangers of heart disease has never been more pervasive Now though ten years into a new millennium scientists are gearing up for the next great challenges in tackling this pervasive condition Cell therapy is going to be a key weapon in the fight against heart disease It has the potential to address many

cardiovascular conditions From heart failure to atrioventricular nodal dysfunction the young but promising field of cell therapy is set to play a significant role in developing the cures that the upcoming decades of hard work will yield

Regenerating the Heart Stem Cells and the Cardiovascular System organizes the field into a digestible body of knowledge Its four sections cover mechanical regeneration electrical regeneration cardiac tissues and in vivo stem cell therapies An array of talented researchers share the fruits of their labors with chapters covering such crucial issues as the cardiogenic potential of varying stem cell types the ways in which they might be used to tackle arrhythmias their possible application to biological replacements for cardiac tissues such as valves and the varying approaches used in the in vivo evaluation of stem cell therapies including methods of delivering stem cells to the myocardium This comprehensive survey of an area of research with such exciting potential is an invaluable resource both for veteran stem cell researchers who need to monitor fresh developments and for newly minted investigators seeking inspirational examples

Cardiac Extracellular Matrix Eric G. Schmuck, Peiman Hematti, Amish N. Raval, 2018-09-20 This book on cardiac extracellular matrix ECM features three sections Fundamental Science Pre Clinical and Translational Science and Clinical Applications In the Fundamental Science section we will cover the spectrum of basic ECM science from ECM s role in development biomechanical properties cardiac ECM influence of cardiomyocyte biology pathophysiology of ECM in heart disease and ECM in tissue engineering Section two Preclinical and Translational Science will discuss cardiac ECM technologies in the clinical pipeline including approaches to ECM as a therapeutic animal models of cardiac research tracking and imaging methods of cardiac ECM and cGMP manufacturing and regulatory considerations for ECM based therapeutics Finally the third section Clinical Applications will highlight the clinical experience around cardiac ECM including therapeutic strategies targeting scar tissue in the heart Clinical trial design and regulatory considerations current human clinical trials in cardiovascular medicine and the role of pharmaceutical and biotech companies in the commercialization of ECM technologies for cardiovascular indications This book provides a comprehensive review for basic and translational researchers as well as clinical practitioners and those involved in commercialization regulatory and entrepreneurial activities

Stem Cells and Cardiac Regeneration Rosalinda Madonna, 2015-12-18 This book provides an update of recent advances in the basic and clinical applications of cell based therapies for myocardial repair and regeneration in ischemic heart disease IHD and heart failure HF The first sections of the book illuminate basic aspects of stem cells such as definitions isolation criteria and characterization of embryonic and adult stem cells as well as pluripotent stem cells and tissue specific progenitor and stem cells In the following section the text examines the role of critical regulators of stem cell differentiation in myocardial regeneration that include circadian rhythms microRNAs epigenetics microvesicles and exosomes The text concludes with a review of the use of stem progenitor cells in cardiac regeneration and discuss current controversies unresolved issues challenges and future directions

Stem Cells and Cardiac Regeneration is addressed to a wide audience consisting of cardiologists clinicians and research

scientists who will learn new concepts in cardiovascular regeneration and repair with special focus on molecular mechanisms and therapeutic potential for cardiovascular regeneration **Regenerating the Heart**, 2011 Molecular Biology of Cardiac Development and Growth Paul J.R. Barton, Kenneth R. Boheler, Nigel J. Brand, Penny S. Thomas, 2013-11-21 This book is concerned with basic molecular biology and how research in this field relates to our understanding of molecular and cellular aspects of cardiac development and growth The authors point out that molecular biology has provided a wealth of new approaches for investigating cellular processes at the molecular level and is now making a significant contribution to the understanding of the molecular mechanisms underlying cardiac development and providing insight into the molecular events underlying cardiac malformation and disease This volume combines basic information on molecular biology with current thinking in cardiac development It is the only book to specifically do this *The Developing Heart* Marianne J. Legato, 2012-12-06 Heart disease despite recent improvements continues to be the single most important cause of death and disability in the United States It is estimated that the direct cost of medical care for cardiovascular disease is 6 billion dollars per year Data compiled by the National Center for Health Statistics reveal a dramatic decline in deaths from cardiovascular disease in the United States greater than 20% since 1968 This phenomenon has been the subject of in depth study It is clear that the decline is real and not a statistical artifact The decrease in mortality has been noted in all sections of the country though the onset and rate of decline varies in different regions of the country Both primary prevention through changes in risk factors and basic and applied research leading to earlier recognition and improved treatment have contributed to the decline They do not fully explain the decline Further research is needed to clarify this issue Clinical cardiologists have been exposed to a veritable explosion of new knowledge of mechanisms of cardiovascular disease development of new improved non invasive diagnostic techniques and the pharmacodynamics of agents affecting the cardiovascular system This new knowledge results from contributions made by individuals from diverse disciplines including cellular and molecular biologists geneticists hematologists cardiologists and cardiovascular surgeons *An Essential Guide to Cardiac Cell Therapy* Emerson Perin, James T. Willerson, 2006-09-15 Sparked by a new understanding that the development of tissues is not restricted to the embryonic phase of development and thus that regeneration of tissues can occur in adults the emerging field of stem cell therapy has grown exponentially in the last several years Crucially the research and findings associated with stem cell research overlap into many other areas such as basic cell biology molecular biology and hematology and the proliferation of clinical studies involving stem cell research is gradually crossing over into the practice of medicine as many patients may become candidates for such novel treatments As a response to this Guide to Cardiac Cell Therapy is a comprehensive but understandable resource that makes this exciting field accessible to clinical practitioners Bridging the gap between basic science and practice it is a useful introduction to the area as well as a cutting edge update of the developments in stem cell therapy as applied to cardiovascular disease *Biophysics of the Failing Heart* R. John Solaro, Jil

C. Tardiff,2013-08-13 Subjects in the monograph *Biophysics of the Failing Heart* include state of the art chapters considering major biophysical mechanisms for why hearts responding to acquired or inherited stressors enter into maladaptive processes eventually leading to an inability of the heart to respond efficiently to hemodynamic loads especially during exercise The chapters describe biophysical techniques that have been applied to determine the triggers for the heart failure process as well as the mechanisms for sustaining the disorders These techniques include measurements of active and passive mechanical properties and hemodynamics at levels of organization ranging from molecules to hearts beating in situ Biophysical concepts and approaches are also applied to determination of signaling and signal transduction energetics ionic currents transport processes electro chemical and chemo mechanical coupling By its emphasis on biophysical aspects of a prevalent clinical condition the monograph is unique in its perspective and focus The breadth of information in the chapters all in one place will be of value to clinicians and researchers at all levels Modern research approaches and clinical understanding of heart failure demands integration of multiple aspects of the disorders In most cases combinations of clinician scientists and researchers author the chapters A main benefit of the book is couched in its didactic approach together with its emphasis on how biophysical concepts and techniques aid in diagnosis and development of new therapies

Cellular Biology of the Heart Howard E. Morgan,1982-01 *Cellular and Molecular Pathobiology of Cardiovascular Disease* Monte Willis,Jonathon W. Homeister,James R. Stone,2013-12-23 *Cellular and Molecular Pathobiology of Cardiovascular Disease* focuses on the pathophysiology of common cardiovascular disease in the context of its underlying mechanisms and molecular biology This book has been developed from the editors experiences teaching an advanced cardiovascular pathology course for PhD trainees in the biomedical sciences and trainees in cardiology pathology public health and veterinary medicine No other single text reference combines clinical cardiology and cardiovascular pathology with enough molecular content for graduate students in both biomedical research and clinical departments The text is complemented and supported by a rich variety of photomicrographs diagrams of molecular relationships and tables It is uniquely useful to a wide audience of graduate students and post doctoral fellows in areas from pathology to physiology genetics pharmacology and more as well as medical residents in pathology laboratory medicine internal medicine cardiovascular surgery and cardiology Explains how to identify cardiovascular pathologies and compare with normal physiology to aid research Gives concise explanations of key issues and background reading suggestions Covers molecular bases of diseases for better understanding of molecular events that precede or accompany the development of pathology

Cardiac Regeneration Masaki Ieda,Wolfram-Hubertus Zimmermann,2017-10-27 This Volume of the series *Cardiac and Vascular Biology* offers a comprehensive and exciting state of the art work on the current options and potentials of cardiac regeneration and repair Several techniques and approaches have been developed for heart failure repair direct injection of cells programming of scar tissue into functional myocardium and tissue engineered heart muscle support The book

introduces the rationale for these different approaches in cell based heart regeneration and discusses the most important considerations for clinical translation Expert authors discuss when why and how heart muscle can be salvaged The book represents a valuable resource for stem cell researchers cardiologists bioengineers and biomedical scientists studying cardiac function and regeneration **Cardiovascular Gap Junctions** S. Dhein, J. S. Borer, 2006-05-04 In recent years gap junction research in the cardiovascular system has considerably improved the understanding of cardiac function and the vasculature in health and disease The present book focuses on the communication of intercellular gap junctions in the cardiovascular system but also includes aspects of physiology medicine and cell biology The first part of this volume highlights the principal aspects of these intercellular channels allowing the readers unfamiliar with the field to get a deeper understanding of the physiology pharmacology and regulation of gap junctions The second part elucidates their role in the pathophysiology of important cardiovascular diseases e g arrhythmia heart failure ischemia atrial fibrillation diabetes and arteriosclerosis This book is of special interest to cardiologists physiologists pharmacologists cardiovascular scientists biophysicists cell biologists as well as to industrial companies engaged in cardiovascular medicine and research

Apoptosis in Cardiac Biology Heribert Schunkert, G.A.J. Riegger, 1999-11-30 Apoptosis or programmed cell death is increasingly considered to be a major factor in the development and progression of cardiovascular disease In patients with heart failure the activation of apoptosis may result in the loss of irreplaceable cardiac myocytes promoting the clinical course of the syndrome Moreover in the coronary arteries inflammation and apoptosis may weaken critical structures of the vessel wall leading to plaque rupture and subsequently to myocardial infarction Given these deleterious consequences it seems almost paradoxical that programmed cell death is an active process that if initiated under physiological circumstances is essential for both coordinated tissue growth or destruction of malignant cells Apoptosis in Cardiac Biology written by a team of internationally renowned researchers gives a timely synopsis of basic mechanisms cellular and structural targets and finally clinical implications of programmed cell death in the heart The expert authors of this volume give concise overviews on general and cell specific aspects of programmed cell death in cardiac myocytes and fibroblasts as well as in vascular smooth muscle and endothelial cells Furthermore novel therapeutic options arising from the outstanding pathophysiological significance of cardiac apoptosis are presented This comprehensive review of Apoptosis in Cardiac Biology will be of interest to both clinicians and basic researchers who are active in the fields of cardiology and atherosclerosis **Molecular**

Cardiology Zhongjie Sun, 2008-02-01 The aim of Molecular Cardiology Methods and Protocols is to document state of the art molecular and genetic techniques in the area of cardiology These modern approaches enable researchers to readily study heart diseases at the molecular level and will promote the development of new therapeutic strategies Methods for genetic dissection signal transduction and microarray analysis are excellent tools for the study of the molecular mechanisms of cardiovascular diseases Protocols for transgenesis take advantage of recent advances in many areas of molecular and cell

biology Transgenic models of heart diseases cardiac hypertrophy cardiac dysfunction and so on are powerful tools for the study of heart disease pathogenesis Methods for gene transfer to heart tissue using viral and nonviral vectors form the basis of gene therapy for heart diseases Heart specific promoters containing a hypox inducible cardioprotective gene switch are key for protection of the heart from ischemia Gene and stem cell therapies open novel and exciting avenues for the prevention and treatment of heart diseases Molecular Cardiology Methods and Protocols consists of 26 chapters dealing with various aspects of molecular cardiology including gene transfer and gene therapy for cardiovascular disease stem cell therapy for cardiovascular disease gene analysis in the injured and hypertrophied heart and transgenesis in cardiovascular research This book provides step by step methods for the successful completion of experimental procedures and would be useful for both experienced and new investigators in the field of molecular cardiology

Cardiac Development Margaret L. Kirby, 2007-03-22 This is the only in depth single author survey of heart development It will provide a more systematic up to date synthesis of the subject than any other volume spanning the range from classical anatomical studies to recent findings in molecular biology It also covers topics that are often omitted from discussions of heart development such as myocardial function cardiac innervation and conduction development and clinical correlates will be discussed throughout The book is beautifully illustrated by Karen Waldo an artist who has collaborated with Dr Kirby for many years

The Biology of Heart Disease Margaret E. Buckingham, Kenneth R. Chien, Christine L. Mummery, 2014 A subject collection from Cold Spring Harbor perspectives in medicine

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