

Human Heart Structure and Function



The Heart And Circulation

Marcel A. Müller



The Heart And Circulation:

The Heart and Circulation Carol Ballard,2005 The Heart and Circulation looks at the role of the heart and explains why blood circulates It discusses the importance of exercise and good diet in keeping the heart healthy Book jacket The Heart and Circulation Branko Furst,2013-08-13 This book traces the development of the basic concepts in cardiovascular physiology in the light of the accumulated experimental and clinical evidence and rather than making the findings fit the standard pressure propulsion mold let the phenomena speak for themselves It starts by considering the early embryonic circulation where blood passes through the valveless tube heart at a rate that surpasses the contractions of its walls suggesting that the blood is not propelled by the heart but possesses its own motive force tightly coupled to the metabolic demands of the tissues Rather than being an organ of propulsion the heart on the contrary serves as a damming up organ generating pressure by rhythmically impeding the flow of blood The validity of this model is then confirmed by comparing the key developmental stages of the cardiovascular system in the invertebrates the insects and across the vertebrate taxa The salient morphological and histological features of the myocardium are reviewed with particular reference to the vortex The complex energy dissipating intracardiac flow patterns likewise suggest that the heart functions as an organ of impedance whose energy consumption closely matches the generated pressure but not its throughput Attention is then turned to the regulation of cardiac output and to the arguments advanced by proponents of the left ventricular and of the venous return models of circulation Hyperdynamic states occurring in arteriovenous fistulas and congenital heart defects where communication exists between the systemic and pulmonary circuits at the level of atria or the ventricles demonstrate that once the heart is unable to impede the flow of blood reactive changes occur in the pulmonary and systemic circulations leading to pulmonary hypertension and Eisenmenger syndrome Finally the key points of the book are summarized in the context of blood as a liquid organ with autonomous movement **Physiology of the Heart and Circulation** Robert C. Little,William C. Little,1989 **The Heart and Circulation** Branko Furst,2019-11-27 This extensively revised second edition traces the development of the basic concepts in cardiovascular physiology in light of the accumulated experimental and clinical evidence It considers the early embryonic circulation where blood circulation suggests the existence of a motive force tightly coupled to the metabolic demands of the tissues It proposes that rather than being an organ of propulsion the heart serves as an organ of control generating pressure by rhythmically impeding blood flow New and expanded chapters cover the arterial pulse circulation in the upright posture microcirculation and functional heart morphology Heart and Circulation offers a new perspective for deeper understanding of the human cardiovascular system It is therefore a thought provoking resource for cardiologists cardiac surgeons and trainees interested in models of human circulation *Blood, Heart and Circulation* American Association for the Advancement of Science. Section on Medical Sciences,1940 *Diseases of the Heart and Circulation* Paul Hamilton Wood,1962 **The Heart and Circulatory System** ,2002 Renin

Angiotensin System and the Heart Walmor C. De Mello, 2005-10-31 Recent studies have shown that the heart possesses an intrinsic renin angiotensin system that is controlled by tissue specific parameters that are activated by biomechanical stress This book reviews the latest information on the way in which both the plasma and cardiac renin angiotensin systems affect heart function It covers the cell and molecular biology of these systems with contributions on renin synthesis uptake and the intracellular signalling pathways Particular insight comes from transgenic mouse models in which either mouse or human genes for various components of the renin angiotensin system are expressed Other topics covered include wound healing as well as the trophic effects of aldosterone Contains the most recent findings on the renin angiotensin system and the heart Written by an international team of distinguished scientists Covers both the cellular and molecular basis of the renin angiotensin system and the clinical relevance of this research

The Heart Seymour Simon, 1996 Describes the heart blood and other parts of the body s circulatory system and explains how each component functions

101 Questions about Blood and Circulation, 2nd Edition Faith Hickman Brynie, 2013-01-01 As in previous books in this critically acclaimed series Brynie polled hundreds of high school students across the country to find out what they wanted to know most about blood and circulation Using an accessible question and answer format Brynie helps readers discover and learn facts about the blood and circulation in human body Brynie appealing and clear writing style makes learning about blood and circulation as easy as donating blood to the blood bank

Complex Structure and Dynamics of the Heart Philip Bittihn, 2014-12-27 This award winning thesis investigates the mechanisms underlying cardiac arrhythmia development and termination from an entirely new perspective By viewing the heart as a complex system the author uses theoretical tools from nonlinear dynamics combined with numerical simulations and experiments to achieve insights into the relationship between its structure and dynamics thereby paving the way towards innovative low energy defibrillation strategies The work tackles among other things the effect of substrate heterogeneity on the spatial temporal dynamics of cardiac arrhythmias and ways in which weak pulsed electric fields can be used to control these dynamics in heterogeneous cardiac tissue The long term vision of this research is to replace the current strategy of applying painful and sometimes tissue damaging electric shock currently the only reliable way to terminate life threatening fibrillation by a more subtle but equally effective intervention The book maps out a number of promising research directions for biophysicists and medical researchers working on the origins and treatment of cardiac arrhythmias

Heart and Blood Circulatory Problems Jan de Vries, 2011-05-20 Although trained as a pharmacist Jan de Vries turned to alternative medicine early in his career His most influential teacher was the world renowned Swiss doctor Alfred Vogel and de Vries now works in one of Britain s most widely known clinics in Ayrshire Cholesterol angina varicose veins haemorrhoids high blood pressure arteriosclerosis and heart attacks are among the many problems discussed in this helpful and illuminating book

The Conduction System of the Heart Hein J.J. Wellens, 2012-12-06 This monograph had its genesis in a workshop on the specific conduction held in the spring of 1975 The

meeting was organized to discuss present knowledge on structure and function of the cardiac specialized tissues with emphasis on their clinical implications Since much new information was presented the participants agreed to prepare manuscripts and make their material available for publication This has resulted in a book in which the cardiac specialized tissues are discussed by different specialists the electron microscopist anatomist pathologist physiologist physicist and clinician Apart from their interest in the cardiac conduction system the participants shared the opinion that their contribution should be relevant to the understanding and treatment of patients with cardiac arrhythmias The book should be useful for the clinician the morphologist and the physiologist The workshop took place at the University Department of Cardiology Wilhelmina Gasthuis Amsterdam The Netherlands This is the home ground of one of the most outstanding electro cardiologists of our time Dr Dirk Durrer By pairing genius and originality with endless fund of energy and dogged persistence he made several important contributions to modern cardiac electrophysiology In recent years he created a cardiological institute where workers from various disciplines cooperate in the study and treatment of cardiac disease Several of his pupils participated in the workshop and contributed to this volume In appreciation and thankfulness we want to dedicate this book to Dr Dirk Durrer

Drugs for the Heart Lionel H. Opie, Bernard J. Gersh, 2013-01-23 *Drugs for the Heart* presents highly portable up to date information on every drug class used to treat cardiovascular disease Drs Lionel H Opie and Bernard J Gersh put the latest dosages interactions indications and contraindications side effects and more at your fingertips equipping you to make effective clinical decisions on behalf of your patients Consult this title on your favorite e reader conduct rapid searches and adjust font sizes for optimal readability Quickly check when to use each drug for any condition with the popular Which Drug for Which Disease chapter Get expert advice from the practice proven experience of two well known editors who represent the best possible combination of clinical and research expertise in cardiovascular therapeutics Expedite your reference with summaries of each drug class at the end of chapters Carry it with you anywhere thanks to a highly compact pocket sized format Navigate the latest pharmacologic advances through coverage of the newest drugs and drug classes as well as all the latest clinical trial results and evidence used to treat heart disease Effectively manage comorbid diseases Apply international insights into cardiac drugs thanks to new global contributors Visualize key pharmacologic and physiologic actions thanks to dynamic new full color drawings Access the complete contents online at Expert Consult with regular online updates posted by leading cardiologist Dr Opie

Mechanosensitivity of the Heart Andre Kamkin, Irina Kiseleva, 2009-11-11 This timely review of heart mechanosensitivity examines tissues at the molecular biological biophysical physiological and pharmaceutical levels New insight on the electromechanical properties of cardiac tissue is supported with experimental results

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

Electrical Diseases of the Heart Ihor Gussak,A. A. M. Wilde,P. A. Friedman,Charles Antzelevitch,M. J. Ackerman,W.-K. Shen,2008-09-08 This book provides a unique contemporary and succinct distillation of the current status of recently delineated electrical diseases of the heart emphasizing their common and diverse clinical features The latest developments in the field of experimental and clinical cardiac electrophysiology genetics pharmacology and interventional therapies of various clinical arrhythmogenic entities are featured and discussed in terms of recent advances in basic and clinical science The book is divided into seven major parts Each part consists of chapters total of 64 dealing with related topics

The circulation in plants, in the lower animals, and in man James Bell Pettigrew,1908 A Text-book of human physiology Austin Flint,1881 Physiology and Pathophysiology of the Heart Nicholas Sperelakis,2012-12-06 The first edition of this book was quite successful As in the first edition the book is divided into two major sections cardiac muscle and coronary circula Several complimentary book reviews appeared soon tion The book is multidisciplinary and includes after the first edition was published and written and membrane biophysics electrophysiology physiol oral words of praise and appreciation were given both ogy pathophysiology pharmacology biochemistry to the publisher and to me by quite a few individuals and ultrastructure Thus the book attempts ro It is because of such positive comments and reactions that the publisher and I decided to embark on a integrate all relevant aspects of the factors influenc second edition of Physiology and Pathophysiology of the ing the function of the heart as a vital organ under Heart The second edition was long in preparation normal and various abnormal conditions The book taking over a year to complete All chapter contri also attempts to set the foundation for an under butors were asked to revise improve and update standing of the action and mechanism of action of a their articles and all have done so with enthusiasm number of classes of cardioactive drugs

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