

Heart and Brain Interactions of Cardiac and Neurologic Disease

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and
Arthur E. Fass, MD**



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Cardiac Myocyte-connective Tissue Interactions in Health and Disease Thomas F. Robinson, Rolf K. H. Kinne, 1990

Cellular Interactions in Cardiac Pathophysiology Ján Slezák, Attila Ziegelhöffer, 2012-12-06 Despite the considerable success in treating diseases of the heart and blood vessels they still remain the major cause of mortality throughout the world. One of the reasons underlying this problem is our lack of understanding of the molecular and cellular aspects of the processes involved. These problems are fully discussed in *Cellular Interactions in Cardiac Pathophysiology* which draws together 25 contributions from leading investigators from all parts of the world. The contributions are grouped under three headings: Extracellular matrix and cardiocyte interaction; Myocytic adaptations and myocardial injury; and Signal transduction.

Consultations in Feline Internal Medicine, Volume 6 - E-Book John R. August, 2009-11-10 Completely revised and updated with 80 all new chapters covering the most important information on current diagnostic treatment and preventive challenges facing feline practitioners today. *Consultations in Feline Internal Medicine* is an invaluable addition to every small animal clinician's library. Full color illustrations and expert contributions help you master and apply the latest advances in feline nutrition, emerging diseases, pet overpopulation, advanced imaging, and more with a comprehensive clinically relevant approach. More than 100 worldwide leaders in small animal practice provide expert insight across the full spectrum of feline internal medicine. Extensive references make it easy to find additional information about specific topics most important to your practice. Current evidence based coverage reflects the latest findings and reports on pressing topics such as Upper Respiratory Tract Aspergillosis, Exocrine Pancreatic Insufficiency, Diagnostic Imaging of the Ear, Cardiac Blood Tests, Urological Interventional Techniques. A new section on feline nutrition highlights the impact of nutritional considerations on feline health. A dynamic full color design incorporating hundreds of NEW illustrations and tables clarifies concepts and helps you interpret clinical data.

Systolic and Diastolic Function of the Heart Neil B. Ingels, George T. Daughters, Jan Baan, James W. Covell, Robert S. Reneman, Frank C.P. Yin, 2006-12-15 The book addresses the meaning of the systolic function and diastolic function, how these can best be measured and interpreted both now and in the future. It also covers topics such as cardiac mechanics, flow dynamics, vascular properties, neural control of cardiovascular systems, and pharmacological interventions. The book is of particular interest to biophysicists, bioengineers, cardiovascular physiologists, and clinicians.

Heart Hypertrophy and Failure Naranjan S. Dhalla, Grant N. Pierce, Vincenzo Panagia, Robert E. Beamish, 2012-12-06 *Heart Hypertrophy and Failure* brings together leading basic scientists and clinicians presenting improved knowledge of the pathophysiology and treatment of the condition. The result is a synthesis of state of the art information on molecular biology, cellular physiology, and structure-function relationships in the cardiovascular system in health and disease. The papers presented describe fundamental mechanisms underlying changes in the cellular machinery during the development of cardiac hypertrophy and heart failure. Audience: Students, scientists, clinical and experimental cardiologists who seek to

understand and manage the perplexing problems of hypertrophy and heart failure

Cell Culture Techniques in Heart and Vessel Research H.M. Piper,2012-12-06 In the cardiovascular sciences an increasing demand for the use of modern methods of cell biology has developed The use of specific cell culture models of the various tissues involved is essential for most of these novel approaches This book meets the demand for a comprehensive and easy accessible source for cell culture methods in cardiovascular research as it was not previously available The basic methods for cultures of cardiomyocytes embryonic and adult endothelial cells micro and macrovascular smooth muscle cells and pericytes are described in detail by an international selection of experts Special chapters discuss the use of growth factors and attachment substrates techniques for co cultures cultures on permeable filter membranes and microcarrier cultures The methodological descriptions are sufficiently detailed for an immediate application in the laboratory All chapters also contain a critical evaluation of alternative approaches

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Acta Anatomica ,1990

Mechanical Properties of Intact Ventricular Muscle Julius Matteo Guccione,1990 *Cardiology* ,1990

Molecular Biology of Collagen Matrix in the Heart Mahboubeh Eghbali-Webb,1995-01-20 This book is about the molecular and cellular biology of the collagen matrix of the heart It is now recognized that the remodeling of the fibrillar collagen matrix that occurs under various pathophysiological conditions may adversely alter myocardial stiffness and ultimately lead to heart failure This book begins with a comprehensive introductory chapter on the collagen matrix in general including information on collagen types and their tissue specificity The book then focuses on different aspects of the molecular and cellular biology of the collagen matrix in the heart the impact of growth factors on the expression of the myocardial collagen matrix and myocardial collagen gene regulation under pathophysiological conditions

Handbook of physiology : a critical, comprehensive presentation of physiological knowledge and concepts. Section 2, The cardiovascular system : Vol. 1. The heart Ernest Page,2002

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Hormonal Regulation of Collagen Biosynthesis and the Effect of Collagen Deposition on the Passive Mechanics of the Heart Following Myocardial Infarction Ann Marie Gallagher,1997

Mechanisms of Contractile Regulation in Single Skinned Cardiac Myocytes Nancy Kay Sweitzer,1993

Contribution of the Extracellular Collagen Matrix to the Mechanics of Ventricular Myocardium Deidre Anne MacKenna,1994

Length-history Dependence of Myocardial Contraction Wolfgang Friedrich Bluhm,1995

Canadian Journal of Zoology ,1994

Rapid Freezing, Freeze Fracture, and Deep Etching Nicholas J. Severs,David M. Shotton,1995-08-11 The techniques of freeze fracture and deep etching techniques for the examination of the ultrastructure of rapidly frozen biological specimens by transmission electron microscopy have profoundly influenced our understanding of the functional organization of the cell Rapid Freezing Freeze Fracture and Deep Etching guides the reader through the principles of these techniques and gives detailed examples of their application in biomedical research The book

is organized into three sections. The first covers the fundamentals of freeze fracture and deep etching with a discussion of basic principles for those new to the field and an entire chapter on the equipment currently available for freeze fracture. Advanced techniques are presented next with each chapter devoted to an in depth treatment of a specific topic including the advantages and limitations of each technique. The final chapters offer a series of applications selected to illustrate the wide ranging and enduring impact of rapid freezing, freeze fracture and deep etching on the field of biomedical research. With over 150 illustrations and containing contributions by leading experts instrumental in the development of these techniques, *Rapid Freezing, Freeze Fracture and Deep Etching* offers authoritative coverage of such novel topics as hyperbaric freezing, ultrarapid freezing techniques in the study of dynamic cellular processes, cytochemical methods utilizing lectins and antibodies for labeling specific cell components, fracturing and shadowing under ultra low temperature and ultra high vacuum conditions, freeze fracture and deep etching in neurobiology. *Rapid Freezing, Freeze Fracture and Deep Etching* will appeal to both newcomers to the field and experienced researchers and will be essential reading for cell biologists and anatomists as well as any researcher who uses electron microscopy.

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compressed or squeezed into a smaller volume compressibility is a measure of how much the volume of matter decreases

under pressure

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expand to fill their container particles move rapidly in all directions molecules are in constant motion and collide with each

other and walls of the container low density because particles are far apart are compressible