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### KGJRGU - HICKS FOLEY

Endothelium and Cardiovascular Diseases: Vascular Biology and Clinical Syndromes provides an in-depth examination of the role of endothelium and endothelial dysfunction in normal vascular function, and in a broad spectrum of clinical syndromes, from atherosclerosis, to cognitive disturbances and eclampsia. The endothelium is a major participant in the pathophysiology of diseases, such as atherosclerosis, diabetes and hypertension, and these entities are responsible for the largest part of cardiovascular mortality and morbidity. Over the last decade major new discoveries and concepts involving the endothelium have come to light. This important reference collects this data in an easy to reference resource. Written by known experts, and covering all aspects of endothelial function in health and disease, this reference represents an assembly of recent knowledge that is essential to both basic investigators and clinicians. Provides a complete overview of endothelial function in health and diseases, along with an assessment of new information Includes coverage of groundbreaking areas, including the artificial LDL particle, the development of a new anti-erectile dysfunction agent, a vaccine for atherosclerosis, coronary calcification associated with red wine, and the interplay of endoplasmic reticulum/oxidative stress Explores the genetic features of endothelium and the interaction between basic knowledge and clinical syndromes

The Topol Solution gives you a complete print and multimedia package consisting of Textbook of Cardiovascular Medicine, Third Edition, a DVD, and access to a wealth of online resources. Updated throughout by renowned international authorities, Dr. Topol's best-selling text provides a comprehensive, contemporary view of every area of cardiovascular medicine--preventive cardiology; clinical cardiology; cardiovascular imaging; electrophysiology and pacing; invasive cardiology and surgical techniques; heart failure and transplantation; molecular cardiology; and vascular biology and medicine. The bound-in DVD contains the full text, plus heart sounds, an image/chart/table bank, and videos of procedures--catheterization, CT/MRI, echocardiography, electrophysiology and pacing, intravascular ultrasonography, nuclear cardiology, and surgery. The Topol Solution Website includes the fully searchable text, heart sounds, and an image/chart/table bank downloadable to PowerPoint--plus questions and answers from The Cleveland Clinic Cardiology Board Review; a PDA download of cardiology drug facts; quarterly articles from Critical Pathways in Cardiology, and links to other cardiology Websites. FEATURES: - Thoroughly updated Third Edition of best-selling Textbook of Cardiovascular Medicine, plus DVD and instant access to a wealth of online resources- THE TEXT: - Renowned international contributors- A comprehensive, contemporary view of every area of cardiovascular

medicine-preventive cardiology; clinical cardiology; cardiovascular imaging; electrophysiology and pacing; invasive cardiology and surgical techniques; heart failure and transplantation; molecular cardiology; and vascular biology and medicine- Focus on clinical material, particularly the application of clinical research to practice- Each chapter includes comments on current controversies and pioneering insights into future developments- THE BOUND-IN DVD: - Full content of book- Heart sounds-a The study of medical history is interesting in itself and may help to modify the view sometimes expressed that medical students and doctors are lacking in culture of any sort. Moreover, some historical perspective is often advantageous when one is considering the multitude of advances that are now taking place in the theory and practice of medicine. This book, containing a series of collected papers concerning immunology and pathology and vascular biology and angiogenesis, drives us through scientific milestones in the history of medicine in the course of the past two centuries and highlights the contribution of pioneering scientists whose discoveries have paved the way to many researchers working in the fields of cell biology, developmental biology, immunology, pathology, and oncology. This book will serve as a resource for scientists, historians of medicine and philosophers of science and medicine.

The Vasculome: From Many, One introduces the fundamental bases of the "unity in diversity of the Vasculome, from the coming together of various cell lineages during development, to its deceptively simple solution for architectural design: the efficient interplay of a few types of building blocks supporting key similar functions throughout the body and their highly specialized functional local variations. Specific examples are included to illustrate how the Vasculome is integral to the function and malfunction of different organs, such as the brain or the kidney. Each section is preceded by an introductory summary that will give a high level unified view of the key concepts illustrated in the various chapters in that section. Zorina Galis' The Vasculome was named a finalist in the Clinical Medicine category of the American Association of Publishers' 2023 PROSE Awards. Brings together leading experts who present the latest biomedical thinking about the vasculature from the integrative perspective of the Vasculome Challenges traditional real and perceived boundaries within vascular research areas and stimulates new fundamental thinking and medical explorations Creates the bases for translating the integrative Vasculome concept into improved fundamental and clinical assessment and management of local and systemic contributions of the vasculature in health and disease With authoritative coverage of everything from recent discoveries in the field of vascular biology to recent clinical trials and evidence-based treatment strategies, Vascular Medicine, 3rd Edition, is your go-to resource for improving your patients' cardiovascular health. Part of the Braunwald family of

renowned cardiology references, this updated volume integrates a contemporary understanding of vascular biology with a thorough review of clinical vascular diseases, making it an ideal reference for vascular medicine specialists, general cardiologists, interventional cardiologists, vascular surgeons, and interventional radiologists. Incorporates technologic advances in vascular imaging – including ultrasound, MRI, CTA, and catheter-based angiography – along with more than 230 new figures, providing an up-to-date and complete view of the vascular system and vascular diseases. Covers novel antithrombotic therapies for peripheral artery disease and venous thromboembolism, advances in endovascular interventions for aortic aneurysms, and today's best surgical treatments for vascular diseases. Includes seven new chapters: Pathobiology of Aortic Aneurysms; Pathobiology and Assessment of Cardiovascular Fibrosis; Large Vessel Vasculitis; Medium and Small Vessel Vasculitis; Epidemiology and Prognosis of Venous Thromboembolic Disease; Fibromuscular Dysplasia; and Dermatologic Manifestations of Vascular Disease. Discusses methods for aggressive patient management and disease prevention to ensure minimal risk of further cardiovascular problems. Keeps you current with ACC/AHA and ECC guidelines and the best ways to implement them in clinical practice.

This book describes the fundamental biology and mechanics of the vasculature and examines how this knowledge has underpinned the development of new clinical modalities, including endovascular treatment and vascularization of reconstructed tissue for regenerative medicine. Vascular engineering is a multidisciplinary field integrating vascular biology, hemodynamics, biomechanics, tissue engineering, and medicine. Each chapter offers insights into the dynamics of the circulatory system and explains how the impact of related disease conditions — atherosclerosis, hypertension, myocardial ischemia, and cerebral infarction — has generated a focus on developing expertise to both maintain and treat the vascular system. As a comprehensive book in this expanding area, Vascular Engineering serves as a valuable resource for clinicians as well as academics and professionals working in biophysics, biomedical engineering, and nano and microrheology. Graduate students in these subject areas will also find this volume insightful.

A wide range of research methods for the study of vascular development, from basic laboratory protocols to advanced technologies used in clinical practice, are covered in this work. A range of methodologies such as molecular imaging platforms and signalling analysis, along with tumour models are collated here. Four sections explore in vitro techniques, in vivo and ex vivo manipulations, imaging and histological analysis and other novel techniques in vascular biology. Readers will discover basic methodologies used for analysis of endothelial cell growth in vitro, including co-culture models of vessel formation. Authors also explore isolation and purification of cells and methods for analysis of data and visualization of localized vasculature with modern imaging platforms. Both animal models and human disease are covered in this work. Each chapter contains helpful sections on trouble shooting, additional notes and links, supporting the reader to carry out protocols. This book will appeal to students, researchers and medical professionals working in all vascular-linked fields such as cardiovascular, cancer and dementia.

Over the past decades, the pathogenesis, diagnosis, treatment and prevention of cardiovascular diseases have been benefited significantly from intensive research activities. In order to provide a comprehensive “manual” in a field that has become as broad and deep as cardiovascular medicine, this volume of “Methods in Molecular Medicine” covers a wide spectrum of in vivo and in vitro techniques

encompassing biochemical, pharmacological and molecular biology disciplines which are currently used to assess vascular disease progression. Each chapter included in this volume focuses on a specific vascular biology technique and describes various applications as well as caveats of these techniques. The protocols included here are described in detail, allowing beginners with little experience in the field of vascular biology to embark on new research projects.

The 2nd edition reviews important vascular disorders encountered in clinical practice, including aortic aneurysms and dissection, peripheral arterial occlusive disease and lymphedema. This book beautifully illustrates recent advances in vascular biology and technology, including enhanced resolution ultrasonography and less invasive therapeutic strategies are just two of many updates. Includes full-color images depicting surgical techniques, X-rays and first-quality photographs relating to vascular disease and its counterparts.

Mortality may be declining in people with heart disease, but more and more are experiencing a long lead-up to clinical disease, without an appropriate intervention. The toxicity of our environmental, social, and cultural worlds creates pathophysiologic disturbances such as obesity, diabetes, and, in some cases, heart disease. In *Vascular Biology for the Clinician*, Mark Houston, MD, MS, MSc, along with Joseph Lamb, MD, and Anita Hays, PhD, suggests to doctors ways to diagnosis cardiovascular diseases at an earlier stage and treat their underlying causes. Houston is board-certified in hypertension, internal medicine, and anti-aging medicine. He runs an active practice and has authored nineteen books and 172 articles on hypertension and cardiovascular diseases and served as editor or reviewer for medical journals.

*Coronary Artery Disease: From Biology to Clinical Practice* links the most important basic concepts of atherosclerosis pathophysiology to treatment management of coronary artery disease. Comprehensive coverage starts with the basic pathophysiologic mechanisms of the disease, including molecular and genetic mechanisms, cells interaction and inflammation. In addition, sections on novel anti-atherosclerotic therapies and a thorough understanding of the recent trends in clinical management round out this comprehensive tome that is ideal for practitioners and researchers. By summarizing this novel knowledge and changes in diagnostic algorithm and treatment options, this is the perfect reference for cardiology researchers who want a volume with the most up-to-date experimental trends in the field of atherosclerosis, for cardiologists and physicians who manage patients with atherosclerotic risk factors and established coronary artery disease, and medical students who want to learn the basic concepts of atherosclerosis. Delivers a comprehensive connection between basic pathophysiologic mechanisms and the clinical context of coronary artery disease Provides a focus on the most important novel evidence in the management of atherosclerosis and coronary artery disease Includes sum-up tables at the end of each chapter and clinical scenarios that focus on diagnosis and treatment Conveys an understanding of upcoming, novel, experimental and clinical treatments

This volume explores microRNA pathophysiology, focusing on basic concepts in molecular and cellular biology. Chapters contributed by leading scientists examine recently discovered pathways in several processes, including aging, diabetes, cardiovascular disease, hematopoiesis, and mitochondrial fitness. The authors contextualize microRNAs within epigenetics and micropeptidomics, angiogenesis and atherosclerosis, endometrial pathophysiology, and more. Throughout, numerous color photo-

graphs, diagrams of molecular pathways, and tables enhance the text. *microRNA: Basic Science* is an ideal companion to both *microRNA: Medical Evidence* and *microRNA: Cancer*. Taken together, these three books provide a state-of-the-art overview of this rapidly-expanding and fascinating field, from the molecular level to clinical practice. It will be invaluable to medical students, physicians, and researchers, as a complete and unique guide in the exploration of microRNA in basic science, cancer and clinical practice.

Vascular biology has become one of the most exciting fields in the biomedical sciences. The development of molecular biology and of genetic approaches in the mouse embryo has large ly contributed to our current understanding of the biology of the vascular cell. Major advances have been achieved in the understanding of vascular development and in the role of the vas culature in various physiological or pathological processes. The aim of the present book is to provide the reader with a reference in which information can be looked-up quickly or to spark interest in a topic for later research. It should be valuable not only for scientists working actively in vascular biology or in related fields but also to clinicians because it will provide both with the necessary information about the physiological mechanisms encountered in their daily work. In addition, the book should also be of great help to teachers and to students in the life sciences. We did not want to organize this book in a textbook fashion. Instead, we chose to organize the book alphabetically, thus providing the reader with rapid access to information. However, we also wanted the various topics dealt with in enough depth for it not to be so condensed and short as in a lexicon. Thus, the book lies somewhere between the two.

In this book, Dr. Mark Houston provides you with scientific prevention and treatment programs to reduce your risk of coronary heart disease and myocardial infarction.

This new book with 35 chapters is a comprehensive account of the important features of the pulmonary circulation which will appeal to (1) clinical and non-clinical students who want a broad-based introduction to the subject, (2) postgraduates involved in or contemplating research on the pulmonary circulation, (3) specialists in chest medicine, cardiology and intensive and critical care whose clinical work concerns diseases affecting the pulmonary blood vessels. Pulmonary circulation is well illustrated with 132 figures, 43 tables and learning points highlighted at the end of each chapter. There are two main sections: "Basic Mechanisms" and "Clinical Practice". All the important features of the pulmonary circulation are reviewed — genetics, cell biology, vascular remodelling, anatomy, physiology, pharmacology, pulmonary hypertension, pulmonary oedema, etc.

A solid understanding of the mechanisms and pathophysiology that underlie vascular disease is essential for the clinical evaluation and optimal management options for millions of patients with vascular disease. It is important that students, residents and practicing clinicians have a solid understanding of how basic science is translated into best clinical practice when managing patients with vascular disease. The thirteen chapters in this eBook have been selected from the contents of two Sections (Basic Science, Pathophysiology) in "Rutherford's Vascular Surgery 8th" edition. It provides an up-to-date overview of the current scientific knowledge regarding the mechanisms and pathogenesis of vascular disease." Rutherford's Vascular Surgery" is the most acclaimed and authoritative reference work in the field, and it is hoped that this eBook, utilizing the content from the latest 8th edi-

tion of this classic reference work, will provide all clinicians involved in the management of vascular disease with a unique and exciting e-format to access the most current information written by internationally recognized experts, on the basic science associated with vascular disease. This eBook will enable students, trainees and practitioners to access the content by scrolling through their computer, tablet or smart phone.

This textbook focuses on the vascular biology and physiology that underlie vascular disorders in clinical medicine. Vascular biomedicine is a rapidly growing field as new molecular mechanisms of vascular health and disease are unraveled. Many of the major cardiovascular diseases including coronary artery disease, heart failure, stroke and vascular dementia are diseases of the vasculature. In addition vascular injury underpins conditions like kidney failure and cardiovascular complications of diabetes. This field is truly multidisciplinary involving scientists in many domains such as molecular and vascular biology, cardiovascular physiology and pharmacology and immunology and inflammation. Clinically, specialists across multiple disciplines are involved in the management of patients with vascular disorders, including cardiologists, nephrologists, endocrinologists, neurologists and vascular surgeons. This book covers a wide range of topics and provides an overview of the discipline of vascular biomedicine without aiming at in-depth reviews, but rather offering up-to-date knowledge organized in concise and structured chapters, with key points and pertinent references. The structure of the content provides an integrative and translational approach from basic science (e.g. stem cells) to clinical medicine (e.g. cardiovascular disease). The content of this book is targeted to those who are new in the field of vascular biology and vascular medicine and is ideal for medical students, graduate and postgraduate students, clinical fellows and academic clinicians with an interest in the vascular biology and physiology of cardiovascular disease and related pathologies.

The only complete work on vascular hemodynamics Recently, vascular hemodynamics has undergone major advances, resulting from increasingly sophisticated imaging, computational, and clinical research methodologies. The effects of these advances are likely to be profound at both the scientific and clinical levels. Now, *Vascular Hemodynamics* provides a self-contained treatment of this rapidly advancing topic as it relates to vascular disease and related pathologies in the human body. Utilizing a multidisciplinary approach encompassing engineering, vascular biology, vascular imaging, and clinical practice, the book provides a survey of the basic science and clinical research in hemodynamics of the vasculature. The topics presented involve sophisticated modeling, imaging, and measurement techniques. The text emphasizes both the technical and clinical aspects of the field. Additionally, *Vascular Hemodynamics*: \* Includes a wide variety of models of vascular pathology, including physical models, finite-element models, linear-system models, transmission-line models, and dye-dilution models \* Discusses diverse pathologies of the large vessels, the microvasculature, and the systematic vasculature \* Brings together a range of imaging modalities related to hemodynamics \* Includes both introductory-level and research-oriented material on each topic *Vascular Hemodynamics* is the only single-text treatment of this important topic, making it a vital reference for researchers and students of bioengineering, radiology, vascular surgery, neurology, nephrology, cardiology, and oncology.

The two main causes of death in the world are directly related to cardiovascular system disorders, ischemic heart disease, and stroke. These pathological conditions are caused by complex molecular

mechanisms related to endothelial dysfunction and, finally, structural and functional alterations of blood vessels. Clinical evidence demonstrates the relevance of knowledge about vascular biology, from molecular mechanisms to clinical applications, especially for students of medical sciences or basic sciences. This book is an international effort of collaboration, with the purpose to create an academic tool for students or people interested in learning about vascular biology. I invite the readers to check the chapters and explore the topics developed by experts in the field.

This volume explores microRNA function in a wide array of human disorders, providing a clinical basis for precision medicine and personalized therapies using these molecules. The twenty-one chapters, all authored by internationally-renowned experts, open with an introduction contextualizing microRNA manipulation within today's initiatives towards precision medicine. The following chapters explore the clinical role of microRNAs in the diagnosis and treatment of metabolic and cardiovascular disorders, focusing on mitochondrial fitness, arterial hypertension, cardiovascular remodeling, cerebrovascular disease, pulmonary hypertension, diabetic kidney disease, and kidney transplantation. The subsequent chapters discuss the importance of microRNAs in the wound healing process and in skin disease, in the pathogenesis of allergy, in human ovulation, and in infection. The book concludes with chapters which outline the emerging role of microRNAs in doping and detail microRNA profiling. *microRNA: Medical Evidence* is an ideal companion to both *microRNA: Basic Science* and *microRNA: Cancer*. Taken together, these three books provide a state-of-the-art overview of this rapidly-expanding and fascinating field, from the molecular level to clinical practice. It will be invaluable to medical students, physicians, and researchers, as a complete and unique guide in the exploration of microRNA in basic science, cancer and clinical practice.

*Forkhead Transcription Factors: Vital Elements in Biology and Medicine* provides a unique platform for the presentation of novel work and new insights into the vital role that forkhead transcription factors play in multiple systems throughout the body. Leading international authorities provide their knowledge and insights to offer a novel perspective for translational medicine that highlights the role of forkhead genes and proteins that may have the greatest impact for the development of new strategies for a broad array of disorders. Equally important, *Forkhead Transcription Factors: Vital Elements in Biology and Medicine* clearly sets a precedent for the necessity to understand the diverse and complex nature of forkhead proteins since this family of transcription factors can limit as well as foster disease progression depending upon the cellular environment. The presentation and discussion of innovative studies and especially those that examine previously unexplored pathways that may influence clinical survival and longevity offer an exciting approach to address the potential of forkhead transcription factors for new therapeutic avenues in multiple disciplines.

Providing easy-to-access information, this unique sourcebook covers the wide range of topics that a researcher must be familiar with in order to become a successful experimental scientist. Perfect for aspiring as well as practicing professionals in the medical and biological sciences it discusses a broad range of topics that are common, yet not traditionally considered part of formal curricula. The information presented also facilitates communication across conventional disciplinary boundaries, in line with the increasingly multidisciplinary nature of modern research projects. Perfect for students with various professional backgrounds providing a broad scientific perspective. Easily accessible, concise material makes learning about diverse methods achievable in today's fast-paced world

Understanding the many complex cellular and molecular mechanisms underlying human vascular diseases is essential in improving the treatment of this important and wide-ranging group of diseases that affect a large proportion of the world population. This book is based on lectures presented at an International Vascular Biology Workshop held in London and chaired by Professor Dame Carol Black. The contents are complemented by some invited chapters, all written by world experts in areas of basic science and clinical medicine highly relevant to vascular biology and disease. We are particularly grateful to Professor Arshed Quyyumi, Professor of Medicine and Cardiology at Emory University, who with his research group and clinical colleagues, has provided a substantial contribution to this book. In common with our previous book - *Vascular Complications in Human Disease: Mechanisms and Consequences* published by Springer in 2008, our aim with this book is to highlight some of the established relationships between basic science and clinical medicine, and to outline new and exciting fields of research and practice in vascular biology and pathobiology. There are two sections: *Basic Science of Vascular Biology* and *Clinical Aspects of Vascular Biology*. In the first section, dealing with basic science, we have included three important growth areas: "Genetics and Gene Therapy" cover approaches to gene therapy and delivery systems, "Animal Models to Study Vascular Disease" with chapters on animal models of scleroderma, animal models of atherosclerosis, and finally on the endothelin system.

This up-to-date easy to understand handbook spans the gamut of current basic, clinical and treatment aspects of vascular biology. The concise summaries, tables, diagrams and brief text will provide a stimulating and valuable information on vascular biology which spans the gamut of current basic, clinical and treatment aspects. Dr. Houston takes a subject that until recently has been esoteric and research oriented and makes it understandable and clinically relevant for the practicing physician. Up-to-date and easy to understand. Readily accessible vascular biology handbook that spans the gamut of current basic, clinical and treatment aspects. Concise summaries, tables and diagrams

This text thoroughly reviews the latest findings and concepts on the vascular biology of diabetes mellitus, the clinical vascular manifestations of diabetes, and the therapeutic options available for diabetic patients with vascular disease. The first section provides an in-depth understanding of fundamental principles and recent discoveries regarding diabetes mellitus and vascular biology. The second, clinically oriented section includes chapters on the economic implications of diabetes mellitus, risk profiling patients with diabetes, optimizing adjunctive therapies, and treatment strategies for diabetic patients with coronary and peripheral artery disease. Summaries of important clinical trials are included to provide an evidence-based approach to treatment.

This book provides a concise yet comprehensive review of the morphological, biochemical, electrical, mechanical, and metabolic properties of vascular smooth muscle, the regulation of vascular activities and the intracellular signaling involved. It particularly focuses on recently identified vasoactive agents, enzymes and transduction mechanisms. It also discusses the latest findings in the regulation of cerebral, coronary and pulmonary circulation as well as vascular activity under hypoxia and ageing. The contraction and dilatation activities of vasculature are of fundamental importance for maintaining circulation homeostasis and adapting physiological changes. Over the last four decades, there have been significant advances in our understanding of the biochemical, structural, genetic, physiological, and pharmacological aspects of vascular activity regulation, and these insights into

the responsiveness of blood vessels under normal and pathophysiological conditions help to provide valuable weapons in the fight against vascular diseases. The book is of interest to researchers and graduate students, both in basic research and in clinic settings, in the field of vascular biology.

Over the past few decades, cardiovascular disease and diabetes have emerged as major public health problems, both as distinct clinical entities and as comorbid conditions. As a result, the fields of vascular biology and endocrinology are working more closely now than ever before. With chapters by renowned experts, *Cardiovascular Endocrinology: Shared Pathways and Clinical Crossroads* emphasizes the considerable physiological interrelationships and clinical correlations between the specialties of cardiovascular medicine and endocrinology. Offering a wealth of information, *Cardiovascular Endocrinology: Shared Pathways and Clinical Crossroads* provides a range of insights, including a novel view of the hormonal regulation of the vascular system and the disruption of the nitric oxide signaling system. It also addresses the role of fatty acids and cytokines in the development of this problem. Importantly, this unique title also provides a state-of-the-art update on the importance of other hormones such as thyroid hormone and steroids, as well as the pathophysiology of cardiovascular disease and controversies surrounding the use of hormone replacement therapy. In all, *Cardiovascular Endocrinology: Shared Pathways and Clinical Crossroads* is a first-of-its-kind title that discusses and summarizes important clinical topics in cardiology and endocrinology. It offers clinicians

and researchers an important resource for navigating the increasingly interrelated pathways of cardiovascular and endocrinologic disorders. The authors discuss a range of important issues from epidemiology to bench research to translation of this research to clinical practice.

Vascular biology is an exciting and rapidly advancing area of medical research, with many new and emerging pathophysiological links to an increasing number of diseases. This updated and expanded new edition takes full account of these developments and conveys the basic science underlying a wide range of clinical conditions including atherosclerosis, hypertension, diabetes, and pregnancy. As with the first edition, the publication provides an introductory account of vascular biology before leading on to explain mechanisms involved in disease processes.

This book provides a comprehensive account of vascular biology and pathology and its significance for health and disease. It systematically and chronologically explains how we came to our current understanding of the vasculature and its function today, and describes in an entertaining way the diverse flaws and turns in science and medicine from the past. It thereby offers a complete and well-studied history on vascular biology and medicine. The book has an easy-to-read style and is written for students as well as scientists, physicians and lecturers in the field of biomedicine, human physiology, cardiology and hematology.