

Vascular Biology In Clinical Practice

In this book, leading world authorities on brain edema and neurological disorders/injuries and experts in preconditioning join forces to discuss the latest progress in basic sciences, translational research, and clinical management strategies relating to these conditions. The range of topics covered is wide, including microglia, energy metabolism, trace metals and ion channels, vascular biology, cellular treatment, hemorrhagic stroke, novel technological advances, anesthesia and medical gases, pediatric brain edema, neuroimaging, behavioral assessment, clinical trials, peripheral to central signaling pathways, preconditioning translation, and animal models for preconditioning and brain edema research. The book comprises presentations from Brain Edema 2014, the joint meeting of the 16th International Conference on Brain Edema and Cellular Injury and the 3rd Symposium on Preconditioning for Neurological Disorders, held in Los Angeles on September 27–30, 2014.

Essential Cardiology: Principles and Practice, 3rd Edition, blends molecular, cellular, and physiologic concepts with current clinical practice and provides up-to-date information on all major aspects of cardiovascular disease. Fully revised by an international panel of leading authorities in the field, it is an authoritative resource for cardiologists, internists, residents, and students. The book presents the clinical examination of

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the patient, including diagnostic testing and cutting-edge radiologic imaging; pathogenesis and treatment of various types of cardiac abnormalities; the needs of special populations, including pregnant, elderly, and renal-compromised patients; cardiovascular gene and cell therapy; and preventive cardiology. It includes new chapters on cardiovascular disease in women; diabetes and the cardiovascular system; and cancer therapy-induced cardiomyopathy. The Third Edition also focuses on the substantial advances in anti-platelet and anticoagulant therapy; new modalities of cardiac imaging; new anti-arrhythmic drugs; and a sophisticated understanding of vascular biology and atherogenesis. Technological advances in thermal imaging have had far-reaching impacts on the fields of biology and medicine. By studying the diverse applications in thermal imaging, significant contributions can be made in modern life sciences. Innovative Research in Thermal Imaging for Biology and Medicine is a thorough reference source that offers in-depth discussions on emerging advancements in thermal imaging techniques and provides interdisciplinary perspectives on its diverse applications. Highlighting relevant topics such as microvascular imaging, vascular optics, body cryotherapy, and myofascial trigger points, this publication is ideal for all academicians, graduate students, practitioners, and researchers who are interested in studying the latest advances in thermal imaging as it relates to medicine and biology.

This book describes the fundamental biology and mechanics of the vasculature and examines how this

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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.

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

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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 text thoroughly reviews the latest findings and concepts on the vascular biology of diabetes mellitus, the

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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 reference provides a synthesis of the whole field of vascular biology, from the latest advances in the study of the structure and function of blood vessels to recent investigations of their interaction with blood cells, with non-cellular constituents of the blood, or with cells of the neighbouring tissue. The latest results from tumor angiogenesis to the latest advances in atherosclerosis research are discussed by leading experts in the field. Together with the CD-ROM this guarantees both researchers and clinicians quick and easy access to all relevant information.

"[A]ccompanying CD contains additional images and video clips."--V. 2, p. xv.

The only complete work on vascular hemodynamics Recently, vascular hemodynamics has undergone major advances, resulting from increasingly

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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,

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neurology, nephrology, cardiology, and oncology. 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

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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 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.

The placenta is an organ that connects the developing fetus to the uterine wall, thereby allowing nutrient uptake, waste elimination, and gas exchange via the mother's blood supply. Proper vascular development in the placenta is fundamental to ensuring a healthy fetus and successful pregnancy. This book provides an up-to-date

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summary and synthesis of knowledge regarding placental vascular biology and discusses the relevance of this vascular bed to the functions of the human placenta.

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.

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

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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 cardio- and cerebrovascular, cancer and dementia.

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

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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 This book provides a clear, concise, management-orientated approach to atrial fibrillation. It also provides a useful and practical guide to the issues relating to this common cardiac problem, to improve the care and treatment of these patients. Hypertension: from basic research to clinical practice” contains a unique collection of selected chapters written by experts and enthusiasts engaged in research and treatment of hypertension, a condition that affects around a billion people in the world. The chapters describe fundamental researches at cellular and molecular levels to the science, and art of treatment of the condition in clinical practice. The topics included ranges from pathophysiology of hypertension, through monitoring of hypertension, to the treatment of hypertension in different patient categories. It contains essential background information as well as cutting edge research, and state of the art treatment alternatives in this broad field. From the beginners, and research students to the expert clinicians, and established scientists, everybody has something to learn from this book.

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

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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.

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

An overview on the role of various gaseous molecules in

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health and disease The substantial biological importance of gaseous mediators in various physiological-pathological conditions has been realized only recently, but to date, the detailed mechanisms involved remain elusive. The publication at hand contains 16 overviews written by a panel of experts who summarize the current knowledge and provide fundamental insights into the roles of gaseous molecules in signal transduction in biological systems. The first part provides a comprehensive overview on gaseous mediators in health and disease. In the second part, the medical application of various molecules such as nitric oxide, carbon monoxide, hydrogen sulfide, hydrogen, acetone and phytoncide are discussed. Furthermore, articles on skin gas biology and Carbon-13 (^{13}C), especially clinical applications of ^{13}C -labeled substrate are included. This book provides valuable information not only for basic researchers in physiology and biochemistry, but also for gastroenterologists and clinicians who wish to learn more about the role of gaseous mediators.

Atrial fibrillation is the commonest sustained cardiac rhythm disorder which confers significant mortality and morbidity from stroke, thromboembolism and heart failure. Atrial fibrillation is encountered in a wide variety of clinical settings, including ischaemic heart disease, valve disease, hypertension, thyroid disease and post operatively. There have been new and dramatic developments in atrial fibrillation, with regard to non-pharmacological management strategies and antithrombotic therapy. This book sets out a logical approach to the practical and clinical management of this common cardiac arrhythmia.

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Illustrated with 86 ECGs and line drawings, and extensively referenced, it is a unique guide and source of information for everyone managing patients with atrial fibrillation, both in general practice and in hospitals.

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.

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

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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.

This well-structured textbook offers essential knowledge on the vascular system. The reader will learn the properties, basic cellular mechanisms and development of the different parts of the vascular system (including the heart), gain knowledge on vascular and related diseases, and will be made familiar with common and most current methods and techniques applied to analyze the vascular system in patients, in animal models, and ex vivo. This book is based on a PhD Course for students from various bioscientific backgrounds given at the Medical University of Vienna, and it will be a valuable resource for Master ?s Students in vascular biology and biomedicine in general and a helpful tool for young researchers world-wide wishing to gain or refresh their knowledge in this field.

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.

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*

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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.

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

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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 edition 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.

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Vascular biology is at the forefront of much medical research, with links to many diseases.

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

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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.

During the past three decades, the cerebral vasculature and its role in blood-brain transport has been an increasingly active area of investigation and learning, particularly from an anatomical and physiological point of view. However, much less is known at the molecular and cellular level about the blood-brain barrier especially regarding the macromolecules responsible for transport, the roles played by vascular wall components (endothelial cell, pericyte, smooth muscle, basement membrane), and the mechanisms regulating brain vascular-specific protein expression and their molecular alterations during development and disease. Fundamental questions still unanswered include: What are the molecular constituents of brain endothelial cell tight junctions? What are the membrane proteins responsible for transport of specific

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substrates? What are the molecular signals that cause glucose transporter gene expression to be 20 to 100 times greater in brain endothelial cells in vivo than in vitro? What roles do pericytes, smooth muscle cells and basement membrane have in establishing or maintaining blood-brain transport characteristics? Are brain vascular transport systems responsible for edema following injury? Are transporter systems regulated via receptor-mediated events? Do hormones or neuromodulators regulate transporter expression? What is the molecular mechanism by which plasma proteins enter the extravascular space? Are transporters asymmetrically distributed between the luminal and abluminal endothelial cell membranes? Can prodrugs or pharmacologic agents be designed as substrate analogs and be delivered to the central nervous system via existing transporters or receptors? Can new and beneficial transporters be introduced into the brain vasculature?

Bridging the gap between the laboratory and the bedside, this timely volume illuminates the connection between endothelial dysfunction and vascular disease. This comprehensive survey of atherosclerotic disease begins with biology – incorporating the latest breakthroughs in the field – then elucidates risk factors and diagnostic tools and markers. A major section on endothelium-directed prevention and therapy shows you how to apply cutting-edge research to clinical care. Under the careful editorial guidance of Drs. De Caterina and Libby, the highly-regarded contributors address: endothelial activation and the initiation of atherosclerosis mechanisms of plaque progression and complications the role of LDL in the origin and progression of atherosclerosis advanced glycation endproducts and the accelerated atherosclerosis in diabetes oxidative stress and vascular disease soluble adhesion molecules as markers of vascular disease hormone-replacement therapy and cardiovascular

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risk anti-oxidants and endothelial protection and more. The first book dedicated to the central role of endothelial dysfunction in vascular disease, this concise volume gathers all the latest information on the subject into one convenient and cohesive text. Make sure your patients are benefiting from current knowledge by keeping a copy of Endothelial Dysfunctions in Vascular Disease close at hand for frequent consultation. Introduction Every book has a history, this one not excepted, having emerged from intersections in professional lives of the Editors. This book bears the fruits of a collaboration between the “pupil” (RDC) and the “mentor” (PL). During an extended sabbatical of the pupil in Boston in 1994, we probed together the concept that endothelial dysfunction served as a common denominator of vascular disease, with the balance between inflammation and its inhibition as a fulcrum of the regulation of the behavior of endothelial cells. As practicing cardiologists in our clinical lives, we sought to link to endothelial function the mechanisms of action of risk factors and of pharmacologic agents used to treat and prevent vascular disease. The pupil therefore authored a few reviews on the mechanism of action of risk factors and included them in a small book, published in Italian, for which the mentor wrote a preface. The book was greeted with favor from the Italian cardiological community, and provided the nidus for the present, more ambitious endeavor, which includes updated reviews on the pathogenesis of vascular disease and on the most novel aspects of vascular biology. This enterprise was enabled by the contributions of many of our former or present collaborators and colleagues, without whose enthusiasm and engagement this work could never have seen light. We largely underestimated the devotion necessary on our own side at the beginning, but it ultimately yielded a product that we feel achieves our original goals. We are aware that we

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confront a continuously evolving topic, where frequent updates would be desirable - if not necessary. Yet, we believe in the value of books - such as the current one - that attempt to organize in a snapshot of time, the vast amount of literature available in a coherent and comprehensive scheme. We are aware of existing gaps, of emerging material not paid its due, and of the rapid evolution of some of the concepts highlighted within. The links between the laboratory and the clinic have never afforded more opportunity for new understanding and advances in diagnosis and treatment than today We hope that our colleagues, vascular biologists cardiologists, internists, and other physicians alike will find this compendium a useful guide to this most exciting time in vascular biology and medicine —Raffaele De Caterina and Peter Libby

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