

Cardiology Research
and Clinical Developments

OXIDATIVE STRESS

A Focus on Cardiovascular Disease Pathogenesis

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Oxidative Stress And Vascular Disease Developments In Cardiovascular Medicine

John F. Keaney Jr.



Oxidative Stress And Vascular Disease Developments In Cardiovascular Medicine:

Oxidative Stress and Vascular Disease John F. Keaney Jr.,1999-12-31 One of the major biomedical triumphs of the post World War II era was the definitive demonstration that hypercholesterolemia is a key causative factor in atherosclerosis that hypercholesterolemia can be effectively treated and that treatment significantly reduces not only coronary disease mortality but also all cause mortality Treatment to lower plasma levels of cholesterol primarily low density lipoprotein LDL cholesterol is now accepted as best medical practice and both physicians and patients are being educated to take aggressive measures to lower LDL We can confidently look forward to important decreases in the toll of coronary artery disease over the coming decades However there is still uncertainty as to the exact mechanisms by which elevated plasma cholesterol and LDL levels initiate and favor the progression of lesions There is general consensus that one of the earliest responses to hypercholesterolemia is the adhesion of monocytes to aortic endothelial cells followed by their penetration into the subendothelial space where they differentiate into macrophages These cells and also medial smooth muscle cells that have migrated into the subendothelial space then become loaded with multiple large droplets of cholesterol esters the hallmark of the earliest visible atherosclerotic lesion the so called fatty streak This lesion is the precursor of the more advanced lesions both in animal models and in humans Thus the centrality of hypercholesterolemia cannot be overstated Still the atherogenic process is complex and evolves over a long period of time

Oxidative Stress and Vascular Disease John F. Keaney Jr.,2012-12-06 One of the major biomedical triumphs of the post World War II era was the definitive demonstration that hypercholesterolemia is a key causative factor in atherosclerosis that hypercholesterolemia can be effectively treated and that treatment significantly reduces not only coronary disease mortality but also all cause mortality Treatment to lower plasma levels of cholesterol primarily low density lipoprotein LDL cholesterol is now accepted as best medical practice and both physicians and patients are being educated to take aggressive measures to lower LDL We can confidently look forward to important decreases in the toll of coronary artery disease over the coming decades However there is still uncertainty as to the exact mechanisms by which elevated plasma cholesterol and LDL levels initiate and favor the progression of lesions There is general consensus that one of the earliest responses to hypercholesterolemia is the adhesion of monocytes to aortic endothelial cells followed by their penetration into the subendothelial space where they differentiate into macrophages These cells and also medial smooth muscle cells that have migrated into the subendothelial space then become loaded with multiple large droplets of cholesterol esters the hallmark of the earliest visible atherosclerotic lesion the so called fatty streak This lesion is the precursor of the more advanced lesions both in animal models and in humans Thus the centrality of hypercholesterolemia cannot be overstated Still the atherogenic process is complex and evolves over a long period of time

Antioxidants and Cardiovascular Disease Jean-Claude Tardif,Martial G. Bourassa,2000 This work addresses a complex problem in cardiovascular medicine It is written by experts in the fields of atherosclerosis heart failure and antioxidants It

should be of interest not only to academicians but also to practising physicians including postdoctoral fellows internists cardiologists and general practitioners The first three chapters review the antioxidant hypothesis and its close relationship to lipid mechanisms of action and classify the different and heterogeneous pharmacological compounds with known antioxidant properties and describe the role of dietary nutrients and supplements as well as the potential therapeutic benefit of antioxidants in coronary artery disease prevention and risk reduction prevention of endothelial dysfunction and prevention of chronic heart failure Finally current knowledge of the use of these compounds in cardiovascular medicine is summarized

Oxidative Stress, Inflammation and Atherosclerosis-Related Diseases: From basic to clinical research Qiang Liu, Mark Slevin, Wen-Jun Tu, 2023-11-27 Atherosclerosis can affect any artery in the body including arteries in the heart brain arms legs pelvis and kidneys As a result different diseases ischemic heart disease carotid artery disease peripheral artery disease ischemic stroke and chronic kidney disease may develop based on which arteries are affected Atherosclerosis related diseases are a global crisis and require a global response The increasing global crisis in atherosclerosis related diseases is a barrier to development goals including poverty reduction health equity economic stability and human security There is a synergic action between genetic ambient local and systemic factors and ultimately the progression of atherosclerosis is responsible for coronary heart disease CHD and its complications such as unstable in crescendo angina myocardial infarction and sudden death peripheral arterial disease and ischemic stroke Recent investigations show that mitochondrial alterations oxidative stress and inflammation are inextricably linked and play major roles in the onset and development of atherosclerosis related diseases Long term oxidative stress autophagy and vascular inflammation could lead to atherosclerosis related diseases The evidence of oxidative stress inflammation autophagy mitochondrial dynamic dysfunction and the interaction of those factors had been proposed

New Developments in Redox Biology Asim K. Duttaroy, Atala Bihari Jena, 2025-09-01 New Developments in Redox Biology Fundamental Roles in Health and Disease offers a comprehensive exploration of the influence of the redox system and the complex relationships between oxidative stress biological development health and disease Divided into three sections it explores the role of the redox system across developmental biology non communicable diseases and infectious diseases The first section includes chapters exploring oxygen availability in embryonic development the influence of stress factors and intra cellular signalling during embryogenesis and how stem cells maintain homeostasis under oxidative stress Section two considers topics such as the origin of cancer stem cells related to hypoxia redox related biomarkers in tumorigenesis and metabolic disorders and the role of oxidation and reduction systems in autoimmune disorders and neurodegeneration The final section focuses on redox regulation in infectious illness and includes chapters on redox biomarkers in host pathogen interaction the role of redox control in zoonotic diseases and the significance of hypoxia on the ability of microbial pathogens to invade the gut Antiviral drugs and the use of redox regulation in their mechanism of action is also explored New Developments in Redox Biology

Fundamental Roles in Health and Disease offers a multidisciplinary approach to the topic providing valuable insights to those seeking to expand their expertise in redox biology and its implications for human health and disease. In particular, researchers and advanced students working across molecular biology, cell biology, biochemistry, developmental biology and related fields will find this book useful. Explores the fundamental role of redox biology in developmental processes and cellular homeostasis. Investigates the impact of oxidative stress on non-communicable diseases including cancer, metabolic and autoimmune disorders. Examines redox regulation in infectious diseases and host-pathogen interactions. Provides detailed insights into redox-related biomarkers and their diagnostic and therapeutic potential. Equips readers with cutting-edge knowledge on redox biology through multi-omics approaches.

Anti-inflammatory Nutraceuticals and Chronic Diseases Subash Chandra Gupta, Sahdeo Prasad, Bharat B. Aggarwal, 2016-09-26. This comprehensive volume focuses on anti-inflammatory nutraceuticals and their role in various chronic diseases. Food and Drug Administration (FDA) approved drugs such as steroids, non-steroidal anti-inflammatory drugs (NSAIDs), statins, and metformin have been shown to modulate inflammatory pathways, but their long-term intake has been associated with numerous side effects. This means that there is enormous potential for dietary agents that can modulate inflammatory pathways in humans. Leading experts describe the latest research on the role of anti-inflammatory nutraceuticals in preventing and treating chronic diseases.

Molecular Genetics of Cardiac Electrophysiology C. Berul, Jeffrey A. Towbin, 2000-04-30. The molecular basis for atrial fibrillation continues to be largely unknown, and therapy remains unchanged, aimed at controlling the heart rate and preventing systemic emboli with anticoagulation. Familial atrial fibrillation is more common than previously suspected. While atrial fibrillation is commonly associated with acquired heart disease, a significant proportion of individuals have early onset without other forms of heart disease, referred to as lone atrial fibrillators. It is also well recognized that atrial fibrillation occurs on a reversible or functional basis without associated structural heart disease, such as with hyperthyroidism or of atrial fibrillation following surgery. It remains to be determined what percentage in these individuals is familial or due to a genetic predisposition. Mapping the locus for familial atrial fibrillation is the first step towards the identification of the gene. Isolation of the gene and subsequent identification of the responsible molecular genetic defect should provide a point of entry into the mechanism responsible for the familial form and the common acquired forms of the disease and eventually provide more effective therapy. We know that the ionic currents responsible for the action potential of the atrium are due to multiple channel proteins, as is electrical conduction throughout the atria. Analogous to the ongoing genetic studies in patients with familial long QT syndrome, it is highly likely that defects in each of these channel proteins will be manifested in familial atrial fibrillation.

The ESC Textbook of Cardiovascular Medicine European Society of Cardiology, 2009-08-27. Following the structure and format of the ESC core syllabus, this text introduces key concepts in the field of cardiovascular medicine.

Heart Diseases: New Insights for the Healthcare Professional: 2011 Edition, 2012-01-09. Heart Diseases: New Insights for the

Healthcare Professional 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Heart Diseases The editors have built Heart Diseases New Insights for the Healthcare Professional 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Heart Diseases in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Heart Diseases New Insights for the Healthcare Professional 2011 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at [http www ScholarlyEditions com](http://www.ScholarlyEditions.com) Studies on Atherosclerosis Martin Rodriguez-Porcel,Alejandro R. Chade,Jordan D.

Miller,2016-12-22 This volume explores the role free radicals and antioxidants within the development of vascular disease examining fundamental research and translating preclinical knowledge to clinical trials The expertly authored chapters describe the relationship of oxidative stress to atherosclerosis and the cardiovascular system exploring its role in cardiac fibrosis renovascular disease hypertension and regulation of blood pressure and cerebral vascular tone The concluding chapter discusses the current state of clinical research contextualizing clinical trials within the existing theoretical framework and analyzing attempts to preserve oxidant stress under various conditions With its concise and authoritative analysis of pre clinical research and clinical results Studies in Atherosclerosis part of the bestselling Oxidative Stress in Basic Research and Clinical Practice series is essential for researchers and clinicians focusing in cardiology nephrology or oxidative stress **Vascular Diseases: Advances in Research and Treatment: 2011 Edition** ,2012-01-09 Vascular

Diseases Advances in Research and Treatment 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Vascular Diseases The editors have built Vascular Diseases Advances in Research and Treatment 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Vascular Diseases in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Vascular Diseases Advances in Research and Treatment 2011 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at [http www ScholarlyEditions com](http://www.ScholarlyEditions.com) **Cardiovascular Genetics for Clinicians** P.A.F.M. Doevendans,A.A.M. de Wilde,2001-10-31 All physicians practicing medicine encounter patients suffering from cardiovascular disease This book has been outlined in such a way that vascular surgeons general internists neurologists and cardiologists should be able to use it The book covers the complete scope of cardiac diseases in addition to chapters on hypertension and atherosclerosis In many

patients there is a family history of cerebrovascular accidents myocardial infarction or peripheral arterial disease Also in patients reporting collapse palpitations and arrhythmias the family is crucial and can provide clues to a genetic cause of the disease This book is published to guide physicians in the process of determining whether a genetic component is likely to be present Furthermore information is provided what the possibilities and limitations of DNA diagnostic techniques are Finally the importance of newly identified categories of potential patients i e gene carriers without symptoms or any inducible sign of disease is highlighted For some patients a genetic diagnosis is essential to determine appropriate therapy and for counseling In some other diseases DNA diagnostic tools are available but the relevant for the patients may be less clear In other families the search for a disease causing gene is ongoing and the possibilities to find genes and to unravel the pathophysiology of the disease is limited by the lack of patients To give insight into the current state of genetic diagnostics the authors have classified the cardiovascular diseases

Vascular Diseases—Advances in Research and Treatment: 2012 Edition, 2012-12-26 Vascular Diseases Advances in Research and Treatment 2012 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Vascular Diseases The editors have built Vascular Diseases Advances in Research and Treatment 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about Vascular Diseases in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Vascular Diseases Advances in Research and Treatment 2012 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

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Cardiovascular Medicine James T. Willerson, Jay N. Cohn, Hein J.J. Wellens, David R. Holmes, 2007-12-06 This book offers the most up to date user friendly guidance on the evaluation diagnosis and medical and surgical treatment of heart and vascular disease The book and

DVD package is designed to provide comprehensive coverage of every aspect of cardiovascular medicine The book has consistent chapter organization relevant to modern cardiovascular practice clear design and engaging text The reader will have all the guidance to diagnose and manage the full range of cardiovascular conditions in one textbook resource while also benefiting from access to additional video material from the integral DVD ROM This includes over 100 individual heart sounds *Inflammatory factors in coronary heart disease: Mechanism, diagnosis and therapy* Kunwu Yu,Wuqiang

Zhu,Qingwei Ji,Min Cheng,2023-07-03 **Post-Genomic Cardiology** José Marín-García,2014-05-09 In this second edition of Post Genomic Cardiology developing and new technologies such as translational genomics next generation sequencing NGS bioinformatics and systems biology in molecular cardiology are assessed in light of their therapeutic potential As new methods of mutation screening emerge both for the genome and for the epigenome comprehensive understanding of the many mutations that underlie cardiovascular diseases and adverse drug reactions is within our reach This book written by respected cardiologist Jos Mar n Garc a features discussion on the Hap Map the largest international effort to date aiming to define the differences between our individual genomes This unique reference further reviews and investigates genome sequences from our evolutionary relatives that could help us decipher the signals of genes and offers a comprehensive and critical evaluation of regulatory elements from the complicated network of the background DNA Offers updated discussion of cutting edge molecular techniques including new genomic sequencing NGS Hap Map bioinformatics systems biology approaches Analyzes mitochondria dynamics and their role in cardiac dysfunction up to date analysis of cardio protection and cardio metabolic syndrome Presents recent translational studies gene therapy transplantation of stem cells and pharmacological treatments in CVDs Extracellular Vesicle-Mediated Processes in Cardiovascular Diseases Rory R.

Koenen,Elena Aikawa,2018-10-19 It is long known that many cells can shed extracellular vesicles small membrane enclosed cell fragments Although the existence of extracellular vesicles has been recognized for many years researchers are only beginning to understand their physiologic significance Several recent studies have demonstrated that extracellular vesicles released from cells serve as a mode of cellular communication They can carry diverse molecular payload e g nucleic acids bioactive lipids and proteins to distal organs and recipient cells Extracellular vesicles can be classified into three major groups exosomes microvesicles and apoptotic bodies All these types of extracellular vesicles can be found in a variety of biologic specimen and their numbers distribution and composition may serve as biomarkers for various disorders including cardiovascular disease Although extracellular vesicle mediated processes are currently best characterized in the fields of cancer biology and neurobiology evidence is accumulating that extracellular vesicles play a key role in the pathophysiology of diabetes thrombosis inflammation and cardiovascular calcification In this Research Topic we invited review and methodological articles that advance our understanding of extracellular vesicle related processes in vascular biology

Insights in atherosclerosis and vascular medicine: 2021 Masanori Aikawa,2023-02-28 **Diabetes Augmentation on**

Vascular Disease, volume II Godfrey Getz ,Catherine A Reardon,2025-07-31 This Research Topic is the second volume of the Diabetes Augmentation on Vascular Disease Please see the first volume here It is widely recognized that cardiovascular disease is the major morbidity associated with type 2 diabetes Although the mechanisms contributing to this increased morbidity are poorly understood it is clear that this is attributable in part to the worsening of the risk factors that contribute to the enhancement of the vascular inflammation and atherosclerosis that contribute to coronary artery disease stroke and peripheral vascular disease This includes obesity dyslipidemia oxidative stress and inflammation Recent studies in humans and experimental animal models highlight inflammation as a critical element of atherosclerosis and its consequent impact on cardiovascular disease Inflammation will be a theme that underlies many of the interactions between diabetes and cardiovascular disease reviewed in this Research Topic This review series will also address clinical correlations between diabetes and clinical cardiovascular disease and attempts to reduce the risk the effect of diabetes on macrophages and the production of monocyte macrophages to promotes atherosclerosis autoimmunity in diabetes and the effect of diabetes on the heart and kidneys contributing to cardiovascular disease Moreover each article will emphasize how these risk factor in diabetes augment cardiovascular disease and focus on future issues to be addressed

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