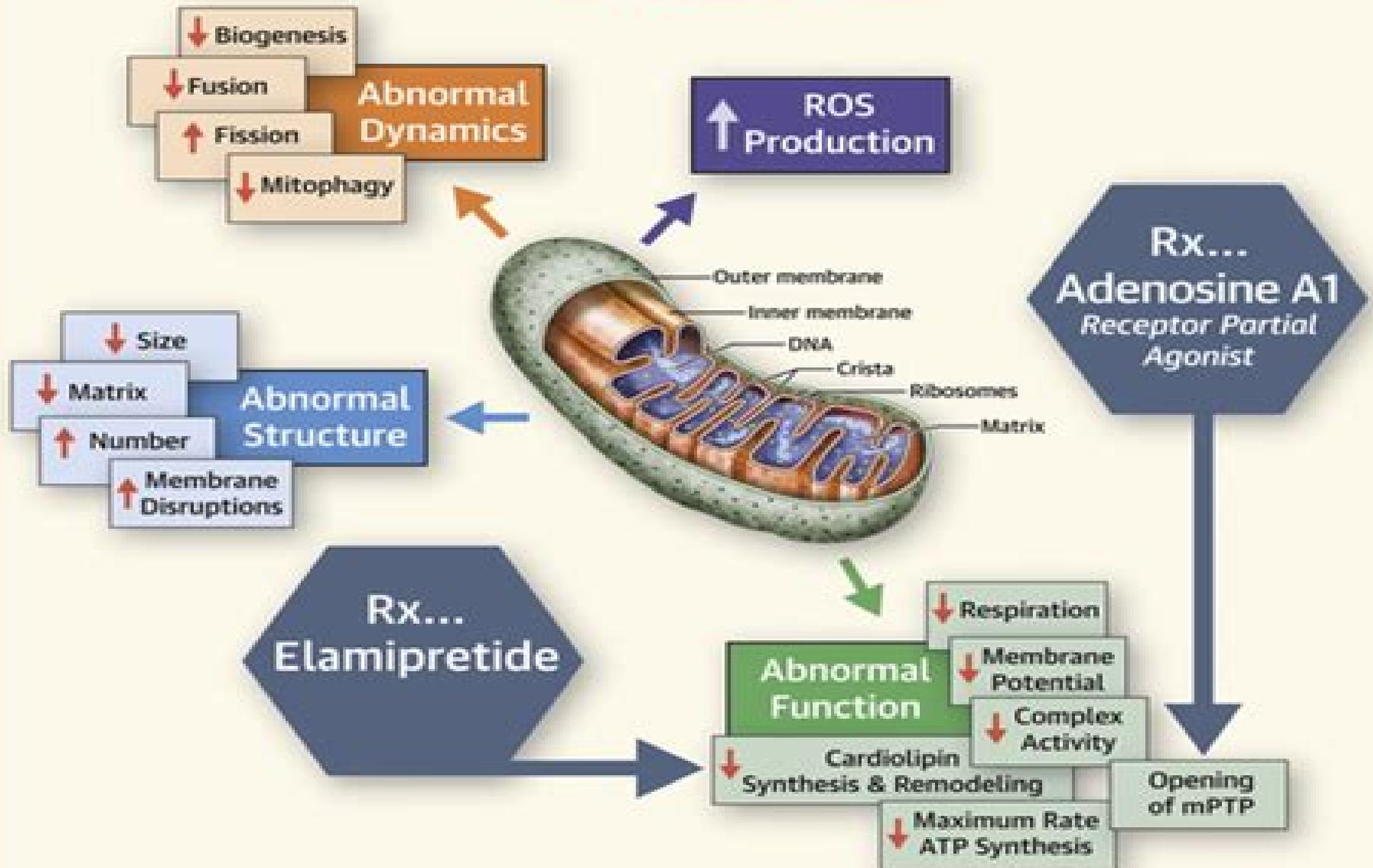


Mitochondria in Heart Failure

Heart & Skeletal Muscle



Mitochondria And The Heart

Yuichi Hattori, Martin C. Michel



Mitochondria And The Heart:

Mitochondria and the Heart José Marín-García,2005-12-17 Mitochondria have been pivotal in the development of some of the most important ideas in modern biology Since the discovery that the organelle has its own DNA and specific mutations were found in association with neuromuscular and cardiovascular diseases and with aging an extraordi nary number of publications have followed and the term mitochondrial medicine was coined Furthermore our understanding of the multiple roles that mitochondria play in cardiac cell homeostasis opened the door for intensive experimentation to understand the pathogenesis and to find new treatments for cardiovascular diseases Besides its role in adenosine triphosphate generation mitochondria regu late a complex network of cellular interactions involving 1 generation and detoxification of reactive oxygen species including superoxide anion hy drogen peroxide and hydroxyl radical 2 maintenance of the antioxidant glutathione in a reduced state and adequate level of mitochondrial matrix superoxide dismutase 3 cytoplasmic calcium homeostasis particularly under conditions of cellular calcium loading 4 transport of metabolites between cytoplasm and matrix 5 both programmed apoptosis and necrotic cell death and 6 cell growth and development It is therefore not surprising that this organelle has come to be the center stage in many current investigations of cardiovascular diseases aging and agi related disease Concomitant with these advances an impressive effort is under way for the development of new tools and methodologies to study mitochondrial structure and function including powerful ways to visualize monitor and alter the organelle function to assess the genetic consequences of these perturbations

Mitochondria and the Heart José Marín-García,2008-11-01 Mitochondria have been pivotal in the development of some of the most important ideas in modern biology Since the discovery that the organelle has its own DNA and specific mutations were found in association with neuromuscular and cardiovascular diseases and with aging an extraordi nary number of publications have followed and the term mitochondrial medicine was coined Furthermore our understanding of the multiple roles that mitochondria play in cardiac cell homeostasis opened the door for intensive experimentation to understand the pathogenesis and to find new treatments for cardiovascular diseases Besides its role in adenosine triphosphate generation mitochondria regu late a complex network of cellular interactions involving 1 generation and detoxification of reactive oxygen species including superoxide anion hy drogen peroxide and hydroxyl radical 2 maintenance of the antioxidant glutathione in a reduced state and adequate level of mitochondrial matrix superoxide dismutase 3 cytoplasmic calcium homeostasis particularly under conditions of cellular calcium loading 4 transport of metabolites between cytoplasm and matrix 5 both programmed apoptosis and necrotic cell death and 6 cell growth and development It is therefore not surprising that this organelle has come to be the center stage in many current investigations of cardiovascular diseases aging and agi related disease Concomitant with these advances an impressive effort is under way for the development of new tools and methodologies to study mitochondrial structure and function including powerful ways to visualize monitor and alter the organelle function to assess the genetic

consequences of these perturbations Mitochondrial Metabolism in Ischemic Heart Disease Shijun Wang, Jian Wu, Lei-Lei Ma, Yang Li, Haiyang Tang, 2022-07-27 Mitochondria and Heart Disease Shaunrick Stoll, 2018 Mitochondria play a key role in the normal functioning of the heart and in the pathogenesis and development of various types of heart disease In addition specific mitochondrial cardiomyopathies due to mutations in mitochondrial DNA have been identified Increasing studies demonstrate that mitochondrial function has emerged as a therapeutic target in heart disease This chapter addresses the recent studies of the role and the mechanism of mitochondria in the development of heart disease and the progress in clinical diagnosis and treatments on a mitochondrial basis Consequently the aim of this chapter is to outline current knowledge about mitochondria in the heart disease **Mitochondrial Dynamics in Cardiovascular Medicine** Gaetano Santulli, 2017-05-25 This text covers the basic principles of mitochondrial dynamics in cardiovascular medicine with particular emphasis on their functional roles in physiology and disease The book will include articles pertaining to mitochondrial fitness on a global basis providing therefore an update on the progress made in several aspects in the field Thus it will assist scientists and clinicians alike in furthering basic and translational research Organized in sections focusing on basic science mitochondrial dysfunction in cardiac disorders in vascular disorders in metabolic disorders in kidney disease therapeutic challenges and options this essential volume fills imperative gaps in understanding and potentially treating several cardiovascular disorders Mitochondrial Diseases Eylem Taskin, Celal Guven, Yusuf Sevgiler, 2018-08-29 Mitochondria are crucial organelles for any cell type Mitochondria take responsibility for not only energy production but also regulation of cell death also called apoptosis calcium storage and heat production Therefore mitochondrial disease is implicated in the mode of action of many harmful factors for cells such as drugs and environmental contaminants dysfunction of the oxygen transport system malnutrition intense exercise and genetic variations This book presents up to date knowledge about mitochondrial disease and its complex relation to some diseases such as cardiac failure cancer and Alzheimer s and Parkinson s diseases This book will therefore be essential for readers who are interested in life sciences especially in medicine The Metabolic Variability of Isolated Heart Muscle Mitochondria Merle Stratte Olson, 1966 **Cumulated Index Medicus**, 1995 Research Grants Index National Institutes of Health (U.S.). Division of Research Grants, 1967 **Mitochondria, Innate Immunity, and Heart Failure** Tingting Liu, 2015 The heart has a high demand for ATP from mitochondria The dysfunction of mitochondria can lead to increased reactive oxygen species ROS in myocardial failure and contribute substantially to the progression of heart failure HF On the other hand the innate immune system of the heart is shown to delimit tissue injury By elucidating metabolic relationships between mitochondrial dysfunction and innate immunity in HF novel biomarkers for HF detection and treatment could be potentially discovered The overall underlying hypotheses are that there would be specific abnormalities in mitochondrial function and proteome with the progression of ischemic heart failure IHF Optic Atrophy OPA 1 mutation will lead to cardiomyopathy through mitochondrial dysfunction and by blocking

Toll Like Receptor TLR 4 the progression of HF will be mitigated with reduced oxidative stress and decreased inflammatory response In our three interrelated studies it is shown that 1 distinctive proteomic remodeling is found in heart mitochondria of our rat ischemic HF model Electron microscopy of left ventricle samples showed specific mitochondrial changes including decreased size increased number abnormal distribution and cristae loss Functional measurements of mitochondria respiration in ischemic HF exhibited decreased total ATP impaired mitochondrial respiration as well as reduced complex I activity 2 Cardiac function mitochondrial function and mtDNA stability were evaluated in a heterozygous OPA mouse model of the disease with OPA1 mutation The disease model showed decreased mtDNA copy number and decreased expression of nuclear antioxidant genes at 3 to 4 months Although cardiac function was normal in the early stages the disease model exhibited reduced fractional shortening cardiac output myocyte contraction and mitochondrial function at 12 months 3 Eritoran could block cardiac TLR4 mediated inflammation and heart failure progression in our IHF rat model in the early stage

Diabetes Literature Index ,1973 Mitochondrial Dysfunction and Cardiovascular Diseases Sebastiano Sciarretta,Richard N. Kitsis,Junichi Sadoshima,2021-03-04 **Diagnosis and Management of Mitochondrial Disorders** Michelangelo Mancuso,Thomas Klopstock,2019-05-03 This book will help readers navigate the complexity of mitochondrial disorders by addressing the role of mitochondrial dysfunction and the complex pathophysiological mechanisms associated with a growing number of illnesses not only of neurological interest Further it provides updated concepts on genotype phenotype correlations clinical syndromes diagnostic algorithms and therapies Written by the world s foremost mitochondrial researchers the book comprehensively presents the state of the art in mitochondrial medicine making it of interest to a wide variety of specialists including neurologists geneticists internists and biologists **Permuted Medical Subject Headings** National Library of Medicine (U.S.),1978 **What do we know about COVID-19 implications for cardiovascular disease?** Hendrik Tevaearai Stahel,Masanori Aikawa,Shuyang Zhang,Mingxing Xie,Shuping Ge,2023-11-03 he coronavirus epidemic is a major concern for each one of us whether we figure among the regular citizens those affected by the disease or those involved in their treatment Much has already been said however there is still a lack of profound understanding regarding specific situations such as the interaction between the virus and the cardiovascular system We have read that elderly people with coronary artery disease diabetes or hypertension as well as those with a history of stroke may have a higher risk of being infected seem to be more severely affected than other persons and have a higher mortality rate But other infections flus and stress situations have previously been shown to also affect the risk and prognosis of patients with cardiovascular disease through myocarditis arrhythmias acute coronary syndromes acute heart failure or cardiogenic shock

Nitric Oxide Louis J. Ignarro,2009-11-05 Nitric oxide NO is a gas naturally found in the body that conveys information between cells In the last decade researchers have found that NO is a signaling molecule of key importance for the cardiovascular system regulating blood pressure and blood flow to different organs In addition discoveries surrounding nitric

oxide's role as a principal neurotransmitter moderating erectile function, a pathophysiological negotiator and messenger in inflammation and a weapon against infections have increased research attention across the fields of biochemistry, chemistry, molecular biology, gene therapy, cell biology, immunology, pharmacology, neuroscience and physiology. Edited by Nobel Laureate Louis J. Ignarro. Up to date therapeutic implications of nitric oxide research. Authored by world experts on nitric oxide. Detailed research of the biochemistry and synthesis of nitric oxide. **Pre- and Postnatal Development and Ageing of the Heart**, 1981. **G Protein-Coupled Receptor Kinases (GRKs) and Beta-Arrestins: New Insights into Disease Regulators** Yuichi Hattori, Martin C. Michel, 2020-03-10. *Research Awards Index*, 1977. *Mitochondria and Their Role in Cardiovascular Disease* José Marín-García, 2012-11-19. Over the past two decades due to dramatic advances in molecular and cell biology, biochemistry and genetics, our view on mitochondria as a relatively static cellular powerhouse has changed radically. We now know that these organelles play a critical role in the normal and in the damaged heart. Written by Dr José María García, Director of the Molecular Cardiology and Neuromuscular Institute. *Mitochondria and Their Role in Cardiovascular Disease* brings readers up to date on the many significant advances in the field of mitochondrial cardiovascular medicine. The book begins with a general introduction to mitochondria followed by laboratory methods to study the structure and function of the organelle, regulation of replication and biogenesis and the mechanisms and functional consequences of mitophagia and mitochondrial dynamics. Subsequent chapters deal with mitochondrial oxidative stress and the role that the organelle plays in cell signaling and cell death. Discussions will be undertaken on the biochemistry of mitochondrial cell signaling including the nature of the proteins engaged in these processes, many of them only recently discovered. Later chapters examine the role of mitochondria and mitochondrial abnormalities in cardiovascular diseases including their diagnosis, therapeutic options currently available, animal models of mitochondrial disease and new frontiers in mitochondrial cardiovascular medicine including areas of research that are relatively new or developing such as proteomics, next generation sequencing and systems biology.

Decoding **Mitochondria And The Heart**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Mitochondria And The Heart**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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