



Mitochondrial Biogenesis

Huma Ikram



Mitochondrial Biogenesis:

Mitochondrial Biogenesis and Genetics Giuseppe Attardi, Anne Chomyn, 1996 The critically acclaimed laboratory standard for forty years *Methods in Enzymology* is one of the most highly respected publications in the field of biochemistry Since 1955 each volume has been eagerly awaited frequently consulted and praised by researchers and reviewers alike More than 250 volumes have been published all of them still in print and much of the material is relevant even today truly an essential publication for researchers in all fields of life sciences Key Features Structural and functional analysis of oxidative phosphorylation complexes Import of proteins and RNA into mitochondria Ion and metabolite transport systems in mitochondria Biophysical methods for mitochondrial function analysis Mitochondrial inheritance and turnover Biology of Vascular Smooth Muscle: Vasoconstriction and Dilatation Yuansheng Gao, 2017-06-14 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 clinical settings in the field of vascular biology **Mitochondrial Biogenesis and Breakdown** Valentin Luzikov, 1985

Exploring Mitochondria: Unraveling the Powerhouses of the Cell Ruang Saintek, 2024-04-19 Exploring Mitochondria Unraveling the Powerhouses of the Cell is a comprehensive journey into the intricate world of mitochondria the dynamic organelles responsible for powering cellular activities This book offers an in-depth exploration of the structure function and significance of mitochondria in various biological processes Beginning with an introduction to mitochondria the book dives into their complex structure and multifaceted functions within cells It discusses the evolutionary origins of mitochondria and their symbiotic relationship with eukaryotic cells shedding light on the pivotal role they play in cellular metabolism and energy production Moreover the book explores the emerging understanding of mitochondria's involvement in cellular signaling pathways aging and various diseases including cancer neurodegenerative disorders and metabolic diseases Readers will gain insights into the intricate interplay between mitochondria and the nucleus highlighting the coordination required for cellular homeostasis and adaptation to changing environmental conditions With discussions on cutting-edge technologies driving mitochondrial research forward this book serves as a valuable resource for students

researchers and anyone intrigued by the profound impact of mitochondria on cellular function and human health Through accessible language and illustrative examples Exploring Mitochondria offers a captivating journey into the powerhouses of the cell

Mitochondrial Function and Biogenesis Carla Koehler,2004-05-13 This book provides the first modern and truly comprehensive coverage of the biochemistry genetics and pathology of mitochondria in different organisms It particularly focuses on the recent advances in our understanding of basic mitochondrial research to the consequences of dysfunction at the molecular level Cover

Carbon Monoxide in Drug Discovery Binghe Wang,Leo E. Otterbein,2022-05-10 CARBON MONOXIDE IN DRUG DISCOVERY An insightful reference for the latest physiological and therapeutic studies of carbon monoxide In Carbon Monoxide in Drug Discovery Basics Pharmacology and Therapeutic Potential a team of distinguished authors delivers foundational knowledge the latest research and remaining challenges regarding the physiological roles and therapeutic efficacy of carbon monoxide CO The editors have included a broad selection of resources from leading experts in the field that discuss the background and physiological roles of CO a variety of delivery forms including CO prodrugs using benign carriers CO sensing therapeutic applications and clinical trials Organized by topic to allow each chapter to be read individually the book covers a wide range of topics from physiological and patho physiological mechanisms at the molecular level to clinical applications for multiple disease processes The editors of Carbon Monoxide in Drug Discovery have created a compelling argument for shifting the accepted understanding of CO from poison to bioactive molecule with enormous clinical benefits Readers will also benefit from A thorough introduction to the background and physiological actions of carbon monoxide including endogenous CO production in sickness and in health Comprehensive explorations of CO delivery forms including non carrier formulations metal carbonyl complexes and organic CO donors Practical discussions of carbon monoxide sensing and scavenging including fluorescent probes for intracellular carbon monoxide detection In depth examinations of the therapeutic applications of CO including CO in solid organ transplantation Perfect for professors graduate students and postdocs in the fields of biology pharmacology immunology medicinal chemistry toxicology and drug delivery Carbon Monoxide in Drug Discovery Basics Pharmacology and Therapeutic Potential is also an invaluable resource for industrial scientists in these areas

Genetics and Molecular Biology of Muscle Adaptation Neil Spurway,Henning Wackerhage,2006-01-01 This title is directed primarily towards health care professionals outside of the United States It starts with the origin of life and ends with the mechanisms that make muscles adapt to different forms of training In between it considers how evidence has been obtained about the extent of genetic influence on human capacities how muscles and their fibres are studied for general properties and individual differences and how molecular biological techniques have been combined with physiological ones to produce the new discipline of molecular exercise physiology This is the first book on such topics written specifically for modules in exercise and sport science at final year Hons BSc and taught MSc levels

Tumor Cell Metabolism and Autophagy as Therapeutic Targets Carlos Pérez-Plasencia,Nadia Judith

Jacobo-Herrera,Luis Enrique Gomez-Quiroz,2021-02-24 Studies on Retinal and Choroidal Disorders Robert D. Stratton,William W. Hauswirth,Thomas W. Gardner,2012-02-17 Studies on Retinal and Choroidal Disorders examines the role that oxidative and nitrosative stress plays in the complex physiology and pathophysiology of the retina and choroid Both the basic science researcher and the clinical practitioner can use this book as a guide to the current understanding of retinal and choroidal cellular mechanisms involved in aging and disease Beginning with a review of oxidative stress and inflammation in the pathoetiology of AMD and a review of the complement system in the retina the book then takes a detailed look at oxidative stress in lipid metabolism and oxidized lipoproteins in the retina It examines the anti apoptotic activity of crystallins in the presence of glutathione oxidative stress in the mitochondria and endoplasmic reticulum the role of iron in retinal disease the mechanisms of pathological VEGF expression NADPH oxidase mechanisms and Hepatocyte Growth Factor in oxidative stress in the retina A detailed look at the Ccl2 Cx3cr1 mouse model of AMD follows Then a detailed examination of the systemic changes in AMD is followed by a discussion of cerium oxide nanoparticle reduction of oxidative stress Two chapters discuss progenitor cells in the cause and treatment of retinal diseases including AMD and diabetic retinopathy Natural compounds in the prevention and treatment of retinal diseases are exhaustively presented followed by a chapter on serotonin 5 HT1A receptor agonists in oxidative stress of the retina The current anti VEGF treatment strategies of neovascular AMD are then given The volume continues with a detailed look at nitric oxide and inducible nitric oxide synthase in retinal vascular disease an explanation of an in vivo technique of studying the effect of lipid hydroperoxides on circulating leucocytes in the retina an excellent review of oxidative stress in retinopathy of prematurity and a look at VEGF induced oxidative stress in the retinal ganglion cell The book ends with a detail examination of the role of carotenoids in retinal health and disease These 31 chapters summarize what is known about oxidative stress in retinal and choroidal disorders All those involved with degenerative diseases of the eye will find Studies on Retinal and Choroidal Disorders to be illuminating and comprehensive **Mitochondria in Health and in Sickness** Andrea Urbani,Mohan Babu,2019-08-26 Besides bringing together researchers and clinicians from various disciplines to share their scope of research on the seminal role of mitochondria in human disease this original volume of the book has a broader appeal by exploring the health and disease of mitochondria with specific emphasis on how mitochondrial dysfunction contributes to the development of various neurodegeneration cancer and metabolic disorders The book also provides a foundational overview of the mitochondrial pathogenic or genetic variants and highlights various analytical tools used in the field of mitochondrial genetics mitochondrial replacement therapy and strategies geared towards shifting heteroplasmy in individuals with mitochondrial disease how state of the art omics technologies proteomics functional genomics have been employed to study mitochondrial biology in healthy and disease states post translational modifications in the regulation of mitochondrial proteins and the role of mitochondria in host pathogen interactions Current approaches taken to study steady state characteristics of

mitochondrial structure and function in live mammalian cells in the contexts of normal and diseased states and most recent research efforts to develop compounds with anti cancer potential by targeting mitochondrial proteases or advances in therapeutic approaches towards mitochondrial disease were also explored By covering this broad range of topics our hope is to disseminate a wealth of knowledge on the critical role of mitochondria and how to probe its function in health and in sickness

The Mechanism in Gut Microbiota of Diabetes and Endocrine Complications: Preventive and Therapeutic Target 12k Guojun Wu,Huijuan Yuan, Li Yan,2025-08-20 In recent years growing attention has been allocated to the relationship between the gut microbiome and disease especially the complex relationship between diabetes and endocrine complications The gut microbiota is one of the most complex microbial communities and has formed a close symbiotic relationship with its host in a long period of co evolution Beneficial bacteria can produce a variety of bioactive substances and participate in host nutrition metabolism immunity and behavioral regulation by regulating host gene expression Hence the role of gut microbiota which is ecologically dominated by beneficial bacteria as a second genome in maintaining human homeostasis has attracted more and more attention in recent years On the other hand many opportunistic pathogens and miscellaneous bacteria can produce toxic metabolites lurking in the gut and the dysbacteria can lead to insulin resistance and inflammation which may disrupt the metabolic balance of the host Changing the microbiome structure through lifestyle interventions medications and fecal microbiota transplantation can be beneficial for disease related phenotypes Therefore understanding the subtle interactions within the microbiome is crucial for deciphering the complex pathogenesis of diabetes and endocrine complications

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 Jos Mar n Garc a 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 mitochondria cardiovascular medicine including areas of research that are relatively new or developing such as proteomics next generation sequencing and systems

biology **Mitophagy in Health and Disease** Konstantinos Palikaras,Nektarios Tavernarakis,Evandro Fei Fang,2021-03-09 *The Routledge Handbook on Biochemistry of Exercise* Peter M. Tiidus,Rebecca E. K. MacPherson,Paul J. LeBlanc,Andrea R. Josse,2020-12-27 From its early beginnings in the 1960s the academic field of biochemistry of exercise has expanded beyond examining and describing metabolic responses to exercise and adaptations to training to include a wide understanding of molecular biology cell signalling interorgan communication stem cell physiology and a host of other cellular and biochemical mechanisms regulating acute responses and chronic adaptations related to exercise performance human health disease nutrition and cellular functioning The Routledge Handbook on Biochemistry of Exercise is the first book to pull together the full depth and breadth of this subject and to update a rapidly expanding field of study with current issues and controversies and a look forward to future research directions Bringing together many experts and leading scientists the book emphasizes the current understanding of the underlying metabolic cellular genetic and cell signalling mechanisms associated with physical activity exercise training and athletic performance as they relate to interact with and regulate cellular and muscular adaptations and consequent effects on human health disease nutrition and weight control and human performance With more emphasis than ever on the need to be physically active and the role that being active plays in our overall health from a whole body level down to the cell this book makes an important contribution for scholars medical practitioners nutritionists and coaches trainers working in research and with a wide range of clients This text is important reading for all students scholars and others with an interest in health nutrition and exercise training in general

Neurochemistry and Biochemical Neuropharmacology of Drug Addiction Huma Ikram,2025-06-22 Dive into the intricate world of addiction with Neurochemistry and Biochemical Neuropharmacology of Drug Addiction an essential guide that explores the complex neurochemical and molecular foundations of substance use disorders This comprehensive book unravels how drugs hijack the brain s reward systems delving into the roles of neurotransmitters such as dopamine serotonin and glutamate as well as stress pathways and neuroplasticity A valuable resource for researchers clinicians and students this text offers critical insights into the biochemical mechanisms driving addiction and paves the way for novel therapeutic strategies *Molecular and Cellular Regulation of Adaptation to Exercise* Claude Bouchard,2015-11-16 Molecular Aspects of Exercise Biology and Exercise Genomics the latest volume in the Progress in Molecular Biology and Translational Science series includes a comprehensive summary of the evidence accumulated thus far on the molecular and cellular regulation of the various adaptations taking place in response to exercise Changes in the cellular machinery are described for multiple tissues and organs in terms of signaling pathways gene expression and protein abundance Adaptations to acute exercise as well as exposure to regular exercise are also discussed and considered Includes a comprehensive summary of the evidence accumulated thus far on the molecular and cellular regulation of the various adaptations taking place in response to exercise Contains contributions from leading authorities Informs and updates on all the latest developments in the field of exercise

biology and exercise genomics

Interphase Between Aging and Neurodegenerative Diseases Walter E. Müller, Anne Eckert, P. Hemachandra Reddy, 2020-01-21 The purpose of this Research Topic is to discuss the latest developments in aging and neurodegenerative diseases Aging represents the major risk factor of the two most relevant neurodegenerative diseases Parkinson's disease PD and Alzheimer's disease AD It is generally accepted that symptoms of PD correlate with the severity of degeneration of dopaminergic substantia nigra neurons In most cases neuronal loss during aging is not sufficient to cause clinical symptoms but only leads to a preclinical state of PD However in a small number of our population neurodegeneration by aging gets accelerated by individual e.g. brain injuries environmental e.g. toxins and genetic e.g. mutations of the alpha synuclein gene factors to reach the critical threshold for clinical symptoms during lifetime Thus neurodegeneration in PD appears to represent the common final pathway of normal brain aging and all other risk factors including genetics and the accumulation of the neurotoxic alpha synuclein protein While aging alone is generally agreed to be sufficient for at least the preclinical state of PD the situation in AD seems to be different Aging as the major and well documented risk factor of AD has been neglected for decades Biochemical mechanisms of brain aging and the cognitive deficits of normal brain aging were seen as two not related and independent processes not related to AD AD has always been characterized for decades by the presence of histopathological alterations extracellular amyloid containing plaques and intracellular tangles of hyperphosphorylated tau protein by neurodegeneration synaptic deficits and finally neuronal loss as well as by severe cognitive deficits clinically often accompanied by neuropsychiatric symptoms like delusions as already described in the first famous patient Auguste D at the Psychiatric Hospital of Frankfurt If or if not one or both of the two histopathological hallmarks play a causative role remains unclear until now The discovery of homozygotic risk genes in most of the very rare probably less than 1% cases of early onset AD which share increased production of amyloid A as one but probably not the only one common property led to the hypothesis of A as the major causative factor for the development of AD It was neglected that plaques density in the brain of AD patients did not correlate with presence and severity of clinical symptoms while synaptic deficits did so even in first observations already published many years ago Based on the Amyloid hypothesis many drug treatments to remove A plaques were developed Even if all seemed to remove A to some extent all strategies failed to improve the symptoms of dementia Thus other concepts to explain the development of clinical symptoms of AD over time are needed These should include the brain aging process not only as a statistical but also as a causative contributing factor These concepts should not only rely on cell or animal models but should much more take into account the disease and the patients A closer look at the situation in PD will certainly be helpful

Molecular Mechanisms and Physiological Significance of Organelle Interactions and Cooperation Michael Schrader, Markus Islinger, 2017-02-28 Eukaryotic cells contain distinct membrane bound organelles which compartmentalise cellular proteins to fulfil a variety of vital functions Many organelles have long been regarded as isolated and static entities e.g. peroxisomes mitochondria lipid droplets but it is

now evident that they display dynamic changes interact with each other share certain proteins and show metabolic cooperation and cross talk Despite great advances in the identification and characterisation of essential components and molecular mechanisms associated with the biogenesis and function of organelles information on how organelles interact and are incorporated into metabolic pathways and signaling networks is just beginning to emerge Organelle cooperation requires sophisticated targeting systems which regulate the proper distribution of shared proteins to more than one organelle Organelle motility and membrane remodeling support organelle interaction and contact This contact can be mediated by membrane proteins residing on different organelles which can serve as molecular tethers to physically link different organelles together They can also contribute to the exchange of metabolites and ions or act in the assembly of signaling platforms In this regard organelle communication events have been associated with important cellular functions such as apoptosis antiviral defense organelle division biogenesis ROS metabolism and signaling and various metabolic pathways such as breakdown of fatty acids or cholesterol biosynthesis In this research topic we will focus on recent novel findings on the underlying molecular mechanisms and physiological significance of organelle interaction and cooperation with a particular focus on mitochondria peroxisomes endoplasmic reticulum lysosomes and lipid droplets and their impact on the regulation of cellular homeostasis Our understanding of how organelles physically interact and use cellular signaling systems to coordinate functional networks between each other is still in its infancy Nevertheless recent discoveries of defined membrane structures such as the mitochondria ER associated membranes MAM are revealing how membrane domains enriched in specific proteins transmit signals across organelle boundaries allowing one organelle to influence the function of another In addition to its role as a mediator between mitochondria and the ER contacts between the MAM and peroxisomes contribute to antiviral signaling and specialised regions of the ER are supposed to initiate peroxisome biogenesis whereas intimate contacts between peroxisomes lipid droplets and the ER mediate lipid metabolism In line with these observations it is tempting to speculate that further physical contact sites between other organelles exist Alternatively novel regulated vesicle trafficking pathways between organelles e g mitochondria to peroxisomes or lysosomes have been discovered implying another mode of organelle communication Identifying the key molecular players of such specialised membrane structures will be a prerequisite to understand how organelle communication is physically accomplished and will lead to the identification of new regulatory networks In addition to the direct transmission of interorganellar information cytosolic messenger systems e g kinase phosphatase systems or redox signaling may contribute to the coordination of organelle functions This research topic will integrate new findings from both modes of communication and will provide new perspectives for the functional significance of cross talk among organelles We would like to thank all the researchers who contributed their valuable work to this research topic Furthermore we are grateful to the reviewers and Associate Editors who contributed valuable comments and positive criticism to improve the contributions

Essential Guide to

Neurodegenerative Disorders Wael Mohamed, 2024-11-24 Handbook of Neurodegenerative Disorders Mechanism Diagnostic and Therapeutic Advances provides a comprehensive review on the current biomedical studies aimed at identifying the underlying causes of neurodegeneration This book reviews the most recent developments in molecular and cellular processes altered during neurodegeneration Divided into four parts the first covers the mechanism of cell death in neurodegeneration The second section reviews the recent progress in gene and gene products in neurodegeneration including Huntington s disease Parkinson s disease Friedreich s ataxia and spinal muscular atrophy The final sections cover the current and future diagnostic techniques of neurodegenerative disorders along with therapeutic approaches Reviews big data and neurodegeneration disorders including gene mapping Examines the structural basis of protein assembly into amyloid filaments in neurodegenerative disease Covers the progress and challenges of pharmacotherapy of neurodegenerative disorders

The Skeletal Muscle: Plasticity, Degeneration and Epigenetics Li Li Ji, 2025-09-30 Skeletal muscle is not an organ merely for locomotion with simple anatomical and metabolic features as has been viewed for a long time The understanding that physical activity plays a vital role in health promotion and disease prevention under the slogan of exercise is medicine has dramatically increased the enthusiasm and demand for knowledge about the skeletal muscle This book The Skeletal Muscle Plasticity Degeneration and Epigenetics is a follow up of another book authored by the Editor which provides the morphological physiological biochemical and molecular biological foundations for organ s response and adaptation to functional demand and for the mechanisms and prevention for the organ s pathogenesis and degeneration Research in the past several decades has demonstrated that skeletal muscle has a tremendous ability to undergo internal changes in response to functional environmental nutritional and genetic challenges through various neural endocrine and autocrine pathways for signal transduction Although the contractile proteins show a relatively slow turnover many organelles and constituents in the myocyte exhibit considerable remodeling throughout the muscle s life cycle In this regard mitochondrion plays a central role in the crosstalk of signaling not only in its own turnover and quality control but also in exerting important influences on other vital cellular functions On the opposite side skeletal muscle is highly vulnerable to disuse and misuse that can cause injury inflammation degeneration and atrophy The various chapters in this book contributed by the experts in the field will introduce and review the most concurrent knowledge to address important issues related to muscle plasticity pathogenesis disease and aging Potential strategies to prevent and ameliorate the above problems in a whole body perspective will be highlighted to provide the readers with the inspiration to learn and work with this important and intriguing organ

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