

K. K. Singh  
Editor

# Mitochondrial DNA Mutations in Aging, Disease and Cancer



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# Mitochondrial Dna Mutations In Aging Disease And Cancer

**David Lyden, Danny R. Welch, Bethan  
Psaila**



## **Mitochondrial Dna Mutations In Aging Disease And Cancer:**

**Mitochondrial DNA Mutations in Aging, Disease and Cancer** Keshav K. Singh, 2013-03-09 Many human genetic diseases associated with blood brain colon ear eye heart kidney liver muscle and pancreas are caused by mutations in mitochondrial DNA Mutations in DNA can result in defects of the electron transport complexes intermediates of the tricarboxylic acid cycle and substrate transport The clinical manifestation of these diseases often involves muscle and the nervous system Mitochondrial DNA mutations have now been associated with aging as well as age related degenerative diseases such as Parkinson s Alzheimer s and Huntington s diseases Changes in structure function and a number of mitochondria play an important role in carcinogenesis Furthermore the role of mitochondria in the execution of programmed cell death or apoptosis has been recognized recently

**Mitochondrial DNA Mutations in Aging, Disease and Cancer** Keshav K Singh, 2014-01-15 Critical Reviews of Oxidative Stress and Aging Richard G. Cutler, 2003 This two volume reference examines the translational research field of oxidative stress and ageing It focuses on understanding the molecular basis of oxidative stress and its associated age related diseases with the goal of developing new methods for treating the human ageing processes *Mechanisms Linking Aging, Diseases and Biological Age Estimation* Sara C. Zapico, 2017-03-27 This book focuses on four of the hallmarks of aging aspartic acid racemization advanced glycation end products telomere shortening and mitochondrial mutations describing their role in aging and diseases and their application to age at death estimation in forensic sciences in greater depth displaying the interconnecting pathways among these processes An additional chapter related to Epigenetics and its role in aging diseases and forensic age estimation is also included This book is aimed at a broad audience from students being introduced to aging diseases and forensic science research to scientists in biomedicine and forensics complementing their knowledge in their respective fields while also increasing their knowledge in other disciplines

**Mitochondria and Cancer** Keshav Singh, Leslie Costello, 2009-04-05 Nearly a century of scientific research has revealed that mitochondrial dysfunction is one of the most common and consistent phenotypes of cancer cells A number of notable differences in the mitochondria of normal and cancer cells have been described These include differences in mitochondrial metabolic activity molecular composition of mitochondria and mtDNA sequence as well as in alteration of nuclear genes encoding mitochondrial proteins This book *Mitochondria and Cancer* edited by Keshav K Singh and Leslie C Costello presents thorough analyses of mitochondrial dysfunction as one of the hallmarks of cancer discusses the clinical implications of mitochondrial defects in cancer and as unique cellular targets for novel and selective anti cancer therapy

**Pediatric Gastrointestinal Disease** W. Allan Walker, 2004 This new edition of *Pediatric Gastrointestinal Disease* is dedicated to the maintenance of a comprehensive approach to the practice of Pediatric Gastroenterology Considered to be the definitive reference work this fourth edition has been extensively reviewed As a result the size and content of various sections have been modified and new

**Mitochondrial DNA and Diseases** Hongzhi Sun, Xiangdong Wang, 2017-11-25 The

book describes molecular principles and mechanisms by which mitochondrial DNA mtDNA can drive the occurrence of diseases and the latest understanding of mtDNA biology The book explores roles of mtDNA mutation and genetic changes in cancer with a special focus on lung cancer and the significance of approach application and bioethics of mtDNA sequencing Authors made a great effort to overview roles of mtDNA signaling pathways base excision repair methylation USP30 mediated regulation mitochondrial ribosome autophagy pathways or ROS dependent signaling in the pathogenesis diagnosis prevention and treatment of diseases It also demonstrates the importance of basic mitochondrial genetics and the relationship between mutations and disease phenotypes and ageing This book covers not only the basic information of mtDNA the relationship of mtDNA and disease but also mtDNA in stem cell and mitochondria and metabolism etc The book is written for biological and clinical students and researchers in the field of mtDNA associated diseases *The Mitochondrion in Aging and Disease* ,2014-08-19 Mitochondria the power plants of eukaryotic cells are best known for the generation of adenosine triphosphate ATP the universal cellular energy currency of the cell and the synthesis of different essential components Mitochondrial dysfunction is known to lead to various degenerative disorders disease and aging The Mitochondrion in Aging and Disease works to unravel the processes leading to mitochondrial impairments and of pathways involved in mitochondrial quality control and their impact on health and aging will be addressed Reviews current topics of interest Written by experts in the field Mitochondrial Genetics and Cancer Gabriel D. Dakubo,2010-03-23 With very few exceptions eukaryotic cells possess two interdependent genomes chromosomal and extra chromosomal Over the past several decades cancer search has focused primarily on deciphering the intricate alterations in the chromosomal genome with until recently very little attention to its cytoplasmic counterpart In spite of the enormous complexity of the nuclear genome which we now fully appreciate after completion of the human genome project the efforts of cancer researchers are commendable in terms of the tremendous gains made in unraveling the numerous genetic changes in cancer These changes include discoveries of tumor suppressor genes oncogenes and caretaker genes that are often mutated in cancer Recent studies of genomic profiles are uncovering even more altered and mutated genes in cancer Besides these findings several therapeutic targets for chemotherapy are currently made from studies of altered nuclear genetic pathways In spite of all these positive efforts the war on cancer declared in 1971 by Richard Nixon is far from being won Indeed the failure of chemotherapy is obvious to clinicians oncologists and their patients alike Moreover the global incidence and prevalence of cancer continue to rise What are we missing Which direction should we be taking Of course modern integrated nuclear genomics proteomics and metabolomics should provide important clues to carcinogenesis but the contribution of cytoplasmic genetic alterations to carcinogenesis cannot be neglected Case Studies in Genes and Disease Bryan P. Bergeron,2004 Progress in the field of genetics is moving faster and demonstrating accomplishments unlike ever before Genes marking for specific diseases and methods in gene therapy are evolving rapidly and being incorporated into daily patient care Ethical issues are under constant

debate by politicians journalists and laymen All health care providers need to stay informed on the research the applicability to patient management and the moral issues involved Case Studies in Genes and Disease tackles all these issues for those who need it most busy clinicians who daily see patients needing to know how advances in genetic research and therapy affect their health Written for practitioners who are not geneticists it does not presume an expert s familiarity with the subject From fundamentals to specific diseases to the dark side of genetics Case Studies in Genes and Disease will educate intrigue and astound you

**Aging** Paulo J. Oliveira,Joao O. Malva,2022-09-22 Aging From Fundamental Biology to Societal Impact examines the interconnection of the cellular and molecular basis of aging and societal based challenges and innovative interventions Sections take a societal based angle on aging describing several flagship initiatives for healthy living and active aging in different regions cover the biology of aging which includes the hallmarks of aging explain the pathophysiology of aging describing different comorbidities associated with aging and possible interventions to decrease the impact of aging and envision future and innovative measures to tackle aging related morbidities Contributions from an interdisciplinary panel of experts cover such topics as the biology of aging to physical activity nutrition psychology pharmacology health care social care and urban planning Provides a cross disciplinary approach to aging at both the biological and societal level Highlights frontline scientific knowledge in the biology of aging and its translation into societal interventions Offers insights on the value of aging research and its future impact from a fundamental and translation point of view

**Cancer Metastasis** David Lyden,Danny R. Welch,Bethan Psaila,2011-04-25 Metastasis is responsible for a large burden of morbidity and mortality among cancer patients and currently few therapies specifically target metastatic disease Further scientific dissection of the underlying pathways is required to pave the way for new therapeutic targets This groundbreaking new text comprehensively covers the processes underlying cancer metastasis and the clinical treatment of metastatic disease Whereas previous volumes have been compendia of laboratory research articles the internationally renowned authors of this volume have summarized the state of the art research in the metastasis field A major section covers the cellular and molecular pathways of metastasis and experimental techniques and the systems and models applied in this field Subsequently the clinical aspects of the major cancer types are considered focusing on disease specific research and therapeutic approaches to metastatic disease The focus is on novel pathophysiological insights and emerging therapies future directions for research and unmet clinical needs are also discussed

Clinical Bioenergetics Sergej M. Ostojic,2020-11-12 Clinical Bioenergetics From Pathophysiology to Clinical Translation provides recent developments surrounding the etiology and pathophysiology of inherited and acquired energy delated disorders Across 40 chapters world leaders in bioenergetics and mitochondrial medicine discuss novel methodologies designed to identify deficiencies in cellular bioenergetics as well as the safety and efficacy of emerging management strategies to address poor cellular bioenergetics Topics discussed include the omics landscape of impaired mitochondrial bioenergetics hormones tissue bioenergetics and metabolism in humans Disease specific

case studies modes of analysis in clinical bioenergetics and therapeutic opportunities for impaired bioenergetics addressing both known treatment pathways and future directions for research are discussed in depth Diseases and Disorders examined include brain injury chronic fatigue syndrome psychiatric disorders pulmonary fibrosis neurodegenerative disorders heart failure chronic kidney disease obesity and insulin resistance among others Provides a thorough discussion of foundational aspects of bioenergetics and disease modes of analysis and treatments for impaired bioenergetics Discusses the role of bioenergetics and treatment pathways in brain injury chronic fatigue syndrome psychiatric disorders pulmonary fibrosis neurodegenerative disorders heart failure chronic kidney disease obesity and insulin resistance among other diseases and disorders Features chapter contributions from international leaders in translational bioenergetics research and clinical practice

*Epigenetics, Nuclear Organization & Gene Function* John C. Lucchesi, 2018-12-19 Epigenetics is the study of heritable changes in gene function that do not involve changes in the DNA sequence These changes consisting principally of DNA methylation histone modifications and non coding RNAs maintain or modulate the initial impact of regulatory factors that recognize and associate with particular genomic sequences Epigenetic modifications are manifest in all aspects of normal cellular differentiation and function but they can also have damaging effects that result in pathologies such as cancer Research is continuously uncovering the role of epigenetics in a variety of human disorders providing new avenues for therapeutic interventions and advances in regenerative medicine This book's primary goal is to establish a framework that can be used to understand the basis of epigenetic regulation and to appreciate both its derivation from genetics and interdependence with genetic mechanisms A further aim is to highlight the role played by the three dimensional organization of the genetic material itself the complex of DNA histones and non histone proteins referred to as chromatin and its distribution within a functionally compartmentalized nucleus This architectural organization of the genome plays a major role in the subsequent retrieval interpretation and execution of both genetic and epigenetic information

*Cumulated Index Medicus*, 1993 *Free Radical Toxicology* Kendall B Wallace, 1997-06-19 Provides insight into the involvement of free radicals in the pathogenesis of chemical induced toxic tissue injury The text addresses the fundamentals of free radical chemistry and the theoretical basis for electron transfer reaction leading to free radical generation It describes the various subcellular sources of free radicals the biological reactivity with lipid protein and nucleic acids and the physiochemical determinants of free radical induced cell injury and the various antioxidant defence systems The book focuses on target organ toxicity and the concluding section offers an overview of the evidence implicating free radicals in the aetiology of various chemical toxicities challenging the possibility of misguided use of biomarkers for oxidative damage

*DNA Repair* Inna Kruman, 2011-11-07 The book consists of 31 chapters divided into six parts Each chapter is written by one or several experts in the corresponding area The scope of the book varies from the DNA damage response and DNA repair mechanisms to evolutionary aspects of DNA repair providing a snapshot of current understanding of the DNA repair processes A

collection of articles presented by active and laboratory based investigators provides a clear understanding of the recent advances in the field of DNA repair      **Pelvic Floor Dysfunction and Pelvic Surgery in the Elderly** David A.

Gordon, Mark R. Katlic, 2017-05-27 This text provides a comprehensive state of the art review of this field and will serve as a resource for urologists colorectal surgeons geriatricians and gynecologists as well as researchers interested in neuromuscular phenomena in the pelvis The book also reviews new data regarding risk factors for pelvic floor muscle dysfunction and profiles new minimally invasive surgical strategies for well known pelvic disease processes Each chapter is chock full of data from landmark trials which have been published over the past few years and placed in context with respect to current management techniques for pelvic floor disorders Written by experts in their field Pelvic Floor Dysfunction and Pelvic Surgery in the Elderly An Integrated Approach provides a concise yet comprehensive summary to help guide patient management      *Model Systems in Aging* Thomas Nyström, Heinz D. Osiewacz, 2004 Aging is the progressive decline in

biological functions over time This decline targets macromolecules cells tissues and as a consequence whole organisms Despite considerable progress in the development of testable hypothesis concerning aging in an evolutionary context a unifying theory of the molecular physiological mechanistic causes of aging has not been reached In fact is it not clear to what extent aging is a programmed or stochastic process This book takes the reader from unicellular bacterial deterioration via senescence in fungi and worms to aging in rodents and humans allowing a comparative view on similarities and differences in different genetic model systems The different model systems are scrutinized in the light of contemporary aging hypothesis such as the free radical and genomic instability theories      Advancing Science and Innovation in Healthcare Research

Debasmita Bhattacharya, Prabir Kumar Das, Samapika Das Biswas, 2025-08-13 While basic science research explores into unraveling biological processes pathways and mechanisms to identify targets and understand disease progression engineering focuses on developing techniques equipment and procedures to improve patient outcomes Advancing Science and Innovation in Healthcare Research Health Horizons not only contributes to the comprehension of human health and disease attenuation but also sheds light on mechanisms and introduces new techniques to combine these two areas and bridge knowledge gaps Comprising 29 chapters this book introduces readers to the application of modern technologies such as bioinformatics bioengineering and artificial intelligence for advancing human health It explores the systems biology approach utilizing multi omics techniques and metagenomic profiling Researchers in systems biology bioinformatics and biomedical applications will find this an essential reference Deciphers the importance of ground breaking basic science research and innovative techniques used to ameliorate diseases and improve health Enhances understanding of human health and reduces the impact of diseases by revealing the underlying mechanisms and introducing innovative techniques addressing knowledge gaps Deals with modern technologies that can be applied for diagnosis and therapeutics of different diseases of different diseases

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