

DNA Methylation and Complex Human Disease

Translational Epigenetics Series



by Michel Neidhart



Dna Methylation And Complex Human Disease

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Dna Methylation And Complex Human Disease:

DNA Methylation and Complex Human Disease Michel Neidhart, 2015-08-11 DNA Methylation and Complex Human Disease reviews the possibilities of methyl group based epigenetic biomarkers of major diseases tailored epigenetic therapies and the future uses of high throughput methylome technologies This volume includes many pertinent advances in disease bearing research including obesity type II diabetes schizophrenia and autoimmunity DNA methylation is also discussed as a plasma and serum test for non invasive screening diagnostic and prognostic tests as compared to biopsy driven gene expression analysis factors which have led to the use of DNA methylation as a potential tool for determining cancer risk and diagnosis between benign and malignant disease Therapies are at the heart of this volume and the possibilities of DNA demethylation In cancer unlike genetic mutations DNA methylation and histone modifications are reversible and thus have shown great potential in the race for effective treatments In addition the authors present the importance of high throughput methylome analysis not only in cancer but also in non neoplastic diseases such as rheumatoid arthritis Discusses breaking biomarker research in major disease families of current health concern and research interest including obesity type II diabetes schizophrenia and autoimmunity Summarizes advances not only relevant to cancer but also in non neoplastic disease currently an emerging field Describes wholly new concepts including the linking of metabolic pathways with epigenetics Provides translational researchers with the knowledge of both basic research and clinic applications of DNA methylation in human diseases

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

Epigenetics in Human Disease Trygve O Tollefsbol, 2018-05-18 Epigenetics in Human Disease Second Edition examines the diseases and conditions on which we have advanced knowledge of epigenetic mechanisms such as cancer autoimmune disorders aging metabolic disorders neurobiological disorders and cardiovascular disease In addition to detailing the role of epigenetics in the etiology progression diagnosis and prognosis of these diseases novel epigenetic approaches to treatment are also explored Fully revised and up to date this new edition discusses topics of current interest in epigenetic research including stem cell epigenetic therapy bioinformatic analysis of NGS data and epigenetic mechanisms of imprinting disorders Further sections explore online epigenetic tools and datasets early life programming of epigenetics in age related diseases the epigenetics of addiction and suicide and epigenetic approaches to regulating and preventing

diabetes cardiac disease allergic disorders Alzheimer s disease respiratory diseases and many other human maladies Includes contributions from leading international investigators involved in translational epigenetic research and therapeutic applications Integrates methods and applications with fundamental chapters on epigenetics in human disease along with an evaluation of recent clinical breakthroughs Presents side by side coverage of the basis of epigenetic diseases and treatment pathways Provides a fully revised resource covering current developments including stem cell epigenetic therapy the bioinformatic analysis of NGS data epigenetic mechanisms of imprinting disorders online epigenetic tools and datasets and more

Bidirectional Gene Promoters Fumiaki Uchiumi,2022-11-25 Recent studies in human genetics and in silico analyses have revealed that a number of genes are head head orientated with other genes or non coding RNAs The expression of regulatory element containing 5 upstream regions of gene pairs are referred to as bi directional promoters and are thought to have a key role in biological regulatory mechanisms For example tumor suppressor protein encoding TP53 and BRCA1 genes are head head bound with WRAP53 and NBR2 respectively DNA repair factor encoding ATM and PRKDC DNA PKcs genes have bidirectional partner NPAT and MCM4 respectively Surveillance of the human DNA database has revealed that the numbers of DNA repair mitochondrial function immune response associated genes are bound with other genes that are transcribed to opposite direction The observations may encourage us to investigate in the molecular mechanisms how DNA repair mitochondrial function immune response associated genes are regulated by bidirectional promoters Not only protein coding genes but also quite a few ncRNAs which play important roles in various cellular events are transcribed under the regulation of the bidirectional promoters More importantly we know that dysregulation in the promoter activity and transcription initiation of genes might cause human diseases Provides an overview of the process of transcription Explains why there so many bidirectional promoters present in human genomes Covers how the diverse biological functions of non coding RNAs ncRNAs are controlled

The Epigenetics of Autoimmunity Rongxin Zhang,2018-04-25 The Epigenetics of Autoimmunity covers a topic directly related to translational epigenetics Via epigenetic mechanisms a number of internal and external environmental risk factors including smoking nutrition viral infection and the exposure to chemicals could exert their influence on the pathogenesis of autoimmune diseases Such factors could impact the epigenetic mechanisms which in turn build relationship with the regulation of gene expression and eventually triggering immunologic events that result in instability of immune system Since epigenetic aberrations are known to play a key role in a long list of human diseases the translational significance of autoimmunity epigenetics is very high To bridge the gap between environmental and genetic factors over the past few years great progress has been made in identifying detailed epigenetic mechanisms for autoimmune diseases Furthermore with rapid advances in technological development high throughput screening approaches and other novel technologies support the systematic investigations and facilitate the epigenetic identification This book covers autoimmunity epigenetics from a disease oriented perspective and several chapters are presented that provide advances in

wide spread disorders or diseases such as systemic lupus erythematosus SLE rheumatoid arthritis RA multiple sclerosis MS type 1 diabetes T1DM systemic sclerosis SSc primary Sj gren s syndrome pSS and autoimmune thyroid diseases AITDs These emerging epigenetic studies provide new insights into autoimmune diseases raising great expectations among researchers and clinicians This seminal book on this topic comprehensively covers the most recent advances in this exciting and rapidly developing new science They might reveal not only new clinical biomarkers for diagnosis and disease progression but also novel targets for potential epigenetic therapeutic treatment Provides the accurate and cutting edge information on autoimmunity epigenetics Wide coverage appeals to those interested in fundamental epigenetics and inheritance to those with more clinical interests Critical reviews of the mean of deriving and analysing autoimmunity epigenetics information as well as its translational potential Up to date coverage of emerging topics in autoimmunity epigenetics

Epigenetics in Human Disease Trygve Tollefsbol, 2012-07-26 Epigenetics is one of the fastest growing fields of sciences illuminating studies of human diseases by looking beyond genetic make up and acknowledging that outside factors play a role in gene expression The goal of this volume is to highlight those diseases or conditions for which we have advanced knowledge of epigenetic factors such as cancer autoimmune disorders and aging as well as those that are yielding exciting breakthroughs in epigenetics such as diabetes neurobiological disorders and cardiovascular disease Where applicable attempts are made to not only detail the role of epigenetics in the etiology progression diagnosis and prognosis of these diseases but also novel epigenetic approaches to the treatment of these diseases Chapters are also presented on human imprinting disorders respiratory diseases infectious diseases and gynecological and reproductive diseases Since epigenetics plays a major role in the aging process advances in the epigenetics of aging are highly relevant to many age related human diseases Therefore this volume closes with chapters on aging epigenetics and breakthroughs that have been made to delay the aging process through epigenetic approaches With its translational focus this book will serve as valuable reference for both basic scientists and clinicians alike Comprehensive coverage of fundamental and emergent science and clinical usage Side by side coverage of the basis of epigenetic diseases and their treatments Evaluation of recent epigenetic clinical breakthroughs

DNA Methylation: Development, Genetic Disease and Cancer Walter Doerfler, Petra Böhm, 2006-06-22 It has become apparent that the genomes of many organisms are characterized by unique patterns of DNA methylation which can differ from genome segment to genome segment and cell type to cell type These patterns can be instrumental in determining cell type and function Thus it is not surprising that studies on the role of DNA methylation now occupy center stage in many fields of biology and medicine such as developmental biology genetic imprinting genetic disease tumor biology gene therapy cloning of organisms and others Once again basic research in molecular biology has provided the essential foundation for investigations of biomedical problems

Biomedical Index to PHS-supported Research, 1991 *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

DNA Methylation: Development, Genetic Disease and Cancer Walter Doerfler, Petra Böhm, 2006-09-02 It has become apparent that the genomes of many organisms are characterized by unique patterns of DNA methylation which can differ from genome segment to genome segment and cell type to cell type These patterns can be instrumental in determining cell type and function Thus it is not surprising that studies on the role of DNA methylation now occupy center stage in many fields of biology and medicine such as developmental biology genetic imprinting genetic disease tumor biology gene therapy cloning of organisms and others Once again basic research in molecular biology has provided the essential foundation for investigations of biomedical problems

Network Medicine Joseph Loscalzo, Albert-László Barabási, Edwin K. Silverman, 2017-02-01 Big data genomics and quantitative approaches to network based analysis are combining to advance the frontiers of medicine as never before With contributions from leading experts Network Medicine introduces this rapidly evolving field of research which promises to revolutionize the diagnosis and treatment of human diseases

Pharmacogenomics An Introduction and Clinical Perspective Joseph S. Bertino, Angela Kashuba, Joseph D. Ma, Uwe Fuhr, C. Lindsay DeVane, 2012-10-12 A COMPLETE INTRODUCTORY TEXT TO THE FIELD OF PHARMACOGENOMICS The only pharmacogenomics resource to feature a global author team comprised of PharmDs MDs PhDs and social scientists Pharmacogenomics offers an essential highly accessible survey of this dynamic discipline You will find thorough coverage of all need to know topics from individual molecules to systemic diseases plus an examination of the latest technologies that are constantly reshaping the field Pharmacogenomics is cohesively organized into two sections the first of which reviews basic aspects of pharmacogenomics including ethics regulatory science and drug metabolism along with a mini course in molecular genetics and testing The second section highlights the practical application of pharmacogenomics in cardiovascular medicine immunology neurology and other specialties FEATURES Important overview of general pharmacogenomics and pharmacogenetics concepts including genetic

variation in signal transduction and targets plus a review of the genetic concepts of pharmacogenomics Discussion of regulatory considerations in pharmacogenomics Focus on the role of health care professionals along with a review of related privacy issues as well as broader ethical legal and social considerations In depth chapters on drug metabolism and transporters Practical step by step guidance on public access to pharmacogenomic testing and patient counseling Up to date coverage of non genetic influences on pharmacogenomics Emphasis on gene drug interactions Numerous tables and figures Chapter ending references Concise learning objectives at the beginning of each chapter Case studies to familiarize you with the clinical relevance of pharmacogenomics in each specialty

Cold Spring Harbor Laboratory of Quantitative Biology,1933

Cold Spring Harbor Symposia on Quantitative Biology

Environmental Epigenomics in Health and Disease

Randy L. Jirtle,Frederick L. Tyson,2013-05-13 There are now compelling human epidemiological and animal experimental data that indicate the risk of developing adult onset complex diseases and neurological disorders are influenced by persistent epigenetic adaptations in response to prenatal and early postnatal exposures to environmental factors Epigenetics refers to heritable changes in gene function that occur without a change in the sequence of the DNA The main components of the epigenetic code are DNA methylation histone modifications and non coding RNAs The epigenetic programs are established as stem cell differentiate during embryogenesis and they are normally faithfully reproduced during mitosis Moreover they can also be maintained during meiosis resulting in epigenetic transgenerational disease inheritance and also potentially introducing phenotypic variation that is selected for in the evolution of new species The objective of this two volume book is to provide evidence that environmental exposures during early development can alter the risk of developing medical conditions such as asthma autism cancer cardiovascular disease diabetes obesity and schizophrenia later in life by modifying the epigenome Consequently epigenetic research promises to markedly improve our ability to diagnosis prevent and treat the pathological conditions of humans however it also introduces unique legal and ethical issues This volume highlights the correlation between environmental factors and complex diseases such as autism addiction neurological diseases diabetes obesity and cancer It concludes with a chapter on legal and ethical implications of epigenetics

Genome Research ,2009

Biostatistical Genetics and Genetic Epidemiology Robert C. Elston,Jane M. Olson,Lyle Palmer,2002-04-22 This is the third in a series of books based on articles from the Encyclopedia of Biostatistics The editors have updated the articles from the Human Genetics section of the EoB have adapted other articles to give them a genetic feel and have included a number of newly commissioned articles

Epigenetics and Complex Traits Anna K. Naumova,Celia M.T. Greenwood,2013-09-17 This book will provide an overview of basic epigenetic phenomena interaction between epigenetic and genetic factors and the influence of epigenetic factors on inheritance Epigenetic states may contribute to the penetrance of genetic polymorphisms or mutations and thereby modify inheritance patterns This may result in non Mendelian inheritance of genetic traits such as observed in common human disease The relationship between epigenetics and genetics however has not been

comprehensively summarized yet The topic is being more and more appreciated lately due to considerable advances in genomic and epigenomic approaches to study the origins of human disease The editors will focus not only on describing epigenetic characteristics mechanisms and results but also on how considerations of epigenetics can alter interpretation and analysis of risks for complex traits This book will be a resource for those who have been working in human genetics or analysis of human genetic data and are studying the impact of epigenetics on inheritance An overview will be given of the impacts of inter individual variation in epigenetic states from major changes errors in genomic imprinting that cause congenital developmental defects to subtle changes and their impact on complex traits The editors will discuss the relationship between epigenetic changes and genetic changes in human disease Several chapters will also focus on statistical analysis of epigenetics effects either in human disease genetic studies or in population genetics

The Encyclopedia of Mass Spectrometry Michael L. Gross, Richard Caprioli, 2006-12-21 Volume 6 Ionization Methods captures the story of molecular ionization and its phenomenal evolution that makes mass spectrometry the powerful method it is today Chapters 1 and 2 cover fundamentals and various issues that are common to all ionization e g accurate mass isotope clusters and derivatization Chapters 3-9 acknowledge that some ionization methods are appropriate for gas phase molecules and others for molecules that are in the solid or liquid states Chapters 3-6 cover gas phase molecules dividing the subject into 1 ionization of gas phase molecules by particles e g EI 2 ionization by photons 3 ionization by ion molecule and molecule molecule reactions e g APCI and DART and ionization in Strong electric fields i e Electrohydrodynamic and Field Ionization Desorption Ionization in a Strong Electric Field illustrates the transition to ionization of molecules in the solid or liquid states covered in Chapters 7-9 1 spray methods for ionization e g electrospray 2 desorption ionization by particle bombardment e g FAB and 3 desorption by photons e g MALDI Electrospray and MALDI also lead to applications in biophysical chemistry the theme of Chapter 10 Chapter 11 reconsiders ionization from the view of choosing an ionization method The range of subjects is from ionization of organic and biomolecules to the study of microorganisms

The Journal of NIH Research, 1993

Graduate Programs in the Biological Sciences 2008 Peterson's Guides Staff, Peterson's, 2007-12 The six volumes of Peterson's Annual Guides to Graduate Study the only annually updated reference work of its kind provide wide ranging information on the graduate and professional programs offered by accredited colleges and universities in the United States and U S territories and those in Canada Mexico Europe and Africa that are accredited by U S accrediting bodies Books 2 through 6 are divided into sections that contain one or more directories devoted to individual programs in a particular field Book 3 contains more than 4 000 programs of study in 53 disciplines of the biological sciences

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