



Epigenetic Gene Expression and Regulation

Translational Epigenetics Series

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Epigenetic Expression Regulation Suming Huang

Michael Lübbert, Peter A. Jones



Epigenetic Expression Regulation Suming Huang:

Epigenetic Gene Expression and Regulation Suming Huang, Michael D. Litt, C. Ann Blakey, 2015-10-19 *Epigenetic Gene Expression and Regulation* reviews current knowledge on the heritable molecular mechanisms that regulate gene expression contribute to disease susceptibility and point to potential treatment in future therapies The book shows how these heritable mechanisms allow individual cells to establish stable and unique patterns of gene expression that can be passed through cell divisions without DNA mutations thereby establishing how different heritable patterns of gene regulation control cell differentiation and organogenesis resulting in a distinct human organism with a variety of differing cellular functions and tissues The work begins with basic biology encompasses methods cellular and tissue organization topical issues in epigenetic evolution and environmental epigenesis and lastly clinical disease discovery and treatment Each highly illustrated chapter is organized to briefly summarize current research provide appropriate pedagogical guidance pertinent methods relevant model organisms and clinical examples Reviews current knowledge on the heritable molecular mechanisms that regulate gene expression contribute to disease susceptibility and point to potential treatment in future therapies Helps readers understand how epigenetic marks are targeted and to what extent transgenerational epigenetic changes are instilled and possibly passed onto offspring Chapters are replete with clinical examples to empower the basic biology with translational significance Offers more than 100 illustrations to distill key concepts and decipher complex science *Epigenetics of the Immune System* Dieter Kabelitz, Jaydeep Bhat, 2020-06-04 *Epigenetics of the Immune System* focuses on different aspects of epigenetics and immunology providing readers with the fundamental mechanisms relating to epigenetics and the immune system This book provides in depth information on immune cells as a toolbox in deciphering systematically regulated mechanisms using omics and computational biology approaches In addition the book presents the translational importance of epigenetics and the immune system in our understanding of pathophysiology in diseases and its therapeutic applications Provides an overview of most important immune mechanisms the current status of epigenetics and how both of them are brought together Presents key principles of immune mechanisms in epigenetics presenting current findings and key principles Features in depth chapter contributions from a wide range of international researchers and specialists in immunology translational medicine and epigenetics Merges two very large areas covering the unique interrelatedness of epigenetics and immunology *Epigenetics and Reproductive Health*, 2020-09-12 *Epigenetics and Reproductive Health* a new volume in the Translational Epigenetics series provides a thorough overview and discussion of epigenetics in reproduction and implications for reproductive medicine Twenty international researchers discuss epigenetic mechanisms operating during the formation of male and female gametes fertilization and subsequent embryo and placental development particularly in mammals and transgenerational epigenetic inheritance This volume also addresses aberrant epigenetic changes influencing male and female infertility pregnancy related disorders and those potentially linked to therapeutic

manipulations and assisted reproductive technologies Emphasis is placed on identifying biomarkers for early detection of aberrant epigenetic mechanisms Later chapters examine the possibility of correcting these epigenetic dysfunctions as well as current challenges and next steps in research enabling new translational discoveries and efforts towards developing therapeutics Thoroughly examines the influence of aberrant epigenetics during gametogenesis and embryogenesis affecting parents gametes and embryos offspring and future generations Explores health outcomes for reproductive senescence endocrine disruption testicular cancer prostate cancer breast cancer ovarian cancer endometrial cancer and cervical cancers Features chapter contributions from international researchers in the field

Epigenetics and DNA Damage

Miriam Galvonas Jasiulionis, 2022-08-14 Although scientists recognize the role of epigenetic mechanisms in DNA damage response the complex mechanistic interplay between chromatin regulation and DNA repair is still poorly understood Comprehending how these processes are connected in time and space and play out in developmental processes may reveal novel directions for new research and disease treatment Epigenetics and DNA Damage a new volume in the Translational Epigenetics series offers a thorough grounding in the relationship between DNA Damage epigenetic modifications and chromatin regulation Early chapters address the basic science of DNA damage and its association with various epigenetic mechanisms including DNA methylation post translational histone modifications histone variants chromatin remodeling miRNAs and lncRNAs This is followed by a close discussion of DNA damage and epigenetics in metabolism aging cellular differentiation immune function stem cell biology and cancer tying recent research to translational application in disease understanding Later chapters examine possible epigenetic therapies combining DNA damage induction and epigenetic alteration as well as instructive chapters on how to analyze DNA damage and epigenetic alterations in new research Offers a thorough foundation in epigenetics and DNA damage research as well as informed discussion of evolving research trends disease findings and early therapeutics Features chapter contributions from leading international contributors Empowers scientists to apply protocols in DNA damage and epigenetic alteration analysis and experimentation in their own research

Epigenetics in Organ Specific Disorders, 2022-12-02 Selected for Doody's Core Titles 2024 in Clinical Genetics

Epigenetics in Organ Specific Disorders a new volume in the Translational Epigenetics series provides a foundational overview and nuanced analysis of epigenetic gene regulation distinct to each organ type and organ specific disorders fully elucidating the epigenetics pathways that promote and regulate disease After a brief introduction chapter authors compare epigenetic regulations across normal and disease conditions in different organ tissues exploring similarities and contrasts The role of epigenetic mechanisms in stem cells cell matrix interactions and cell proliferation cell migration cellular apoptosis necrosis pyknosis tumor suppression and immune responses across different organ types are examined in depth Organ specific epigenetic mechanisms and biomarkers of early use in developing drugs which can selectively target the organ of interest are also explored to enable new precision therapies Identifies unique epigenetic mechanisms that occur in

normal and disease conditions in each organ examining differences and similarities Explores organ specific epigenetic mechanisms to enable drug discovery and development Features chapter contributions from leading researchers in the field

Epigenetics in Human Disease Trygve O. Tollefsbol, 2023-10-09 Epigenetics in Human Disease Third 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 From molecular mechanisms and epigenetic technology to clinical translation of recent research the nature and applications of the science is presented for those with interests ranging from the fundamental basis of epigenetics to therapeutic interventions for epigenetic based disorders with an emphasis throughout on understanding and application of key concepts in new research and clinical practice Fully revised and up to date this Third Edition discusses topics of current interest in epigenetic disease research including stem cell epigenetic therapy bioinformatic analysis of NGS data epigenetic mechanisms of imprinting disorders microRNA in cancer epigenetic approaches to control obesity epigenetics and airway disease and epigenetics in cardiovascular disease 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 In addition each chapter now includes chapter summaries definitions and vibrant imagery and figures to reinforce understanding as well as step by step methods and disease research case studies 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 Each chapter updated to include summaries definitions and vibrant imagery and figures to reinforce understanding Features step by step methods and disease research case studies to put book concepts into practice

Personalized Epigenetics Trygve Tollefsbol, 2024-07-17 Personalized Epigenetics Second Edition discusses the core translatability of epigenetics to health management of individuals who have unique variations in their epigenetic signatures that can guide both disorder and disease prevention and therapy Fully updated and revised this new edition details inter individual variability in the major epigenetic process in humans consisting of DNA methylation histone modifications noncoding RNA and the diagnostic prognostic and therapeutic potential of the field It also reviews the impact of the environment on epigenetic variations among individuals and the role of pharmacology and drug development in personalized epigenetics Most importantly the text covers personalized epigenetics from a disease oriented perspective presenting chapters that provide advances in widespread disorders or diseases including diabetes cancer autoimmune disorders obesity cardiovascular diseases neurological disorders and pain management Includes new chapters on topics such as the limitations of personalized epigenetic variation

comparisons personalized epigenetics technologies epigenetics of personalized nanomedicine personalized epigenetic management of diabetes epigenetics and chemoresistance and personalized epigenetics and neurological disorders Covers key methodological processes that are important in personalized medicine Offers disease research case studies to provide in depth discussion of examples of recent epigenetic research on a disease area Features topics such as forensic epigenetics epigenetics of personalized toxicity limitations of epigenetic variation comparisons and nanomedicine and nutrigenomics as applied to personalized epigenetics

Perinatal and Developmental Epigenetics Garima Singh, 2022-12-02 Perinatal and Developmental Epigenetics Volume 32 a new volume in the Translational Epigenetics series provides a thorough overview of epigenetics in the early developmental and perinatal stages illuminating pathways for drug discovery and clinical advances Here over 25 international researchers examine recent steps forward in our understanding of epigenetic programming during perinatal and early development The book opens with an in depth introduction to known and newly discovered epigenetic marks and how they regulate various cellular processes Later sections examine various prenatal and perinatal environmental experiences and their ability to derail the normal developmental trajectory via epigenetic reprogramming Insights and suggestions for future research illuminate approaches for identifying individual disease susceptibility Concluding chapters highlight preventative and targeted therapeutic pathways to improve quality of life into adulthood Examines disease onset stemming from epigenetic changes during the perinatal periods Features contributions from international experts in the field including basic biology disease research and drug discovery Offers intervention strategies to mitigate adverse developmental programming to improve health outcomes

Neuropsychiatric Disorders and Epigenetics Jacob Peedicayil, Dennis R. Grayson, 2023-09-29 Neuropsychiatric Disorders and Epigenetics Second Edition is a comprehensive reference on the epigenetic basis of common neuropsychiatric disorders The volume is organized into chapters covering individual neuropsychiatric disorders from addiction to anxiety and autism spectrum disorders and is contributed by leading experts in their respective fields The epigenetic aspects of each disorder are discussed in the context of the full range of associated epigenetic mechanisms including DNA modification histone post translational modification chromatin organization and non coding RNA A particular emphasis is placed on potential epigenetic interventions when the effects of environmental stimuli on epigenetic states is particularly relevant to disease This new edition has been fully updated to reflect recent research advances enabled by genomic technologies as well as therapeutic interventions for previously unmanageable disorders Several new chapters have been added on disorders or approaches not considered in the earlier edition including epigenetics and anxiety disorders epigenetics and neuroimaging in neuropsychiatric disorders genome wide approaches to epigenetic research and the epigenetics of spinal muscular atrophy By helping to define epigenetics as a key player in neuropsychiatric disorders this volume empowers new research clinical translation and pharmacological advances and highlights promising directions for ongoing investigation Analyzes the effects of

environmental stimuli on epigenetic states that correlate with neuropsychiatric disease induction Reviews the epigenetic basis for common neuropsychiatric disorders thereby guiding translational therapies for clinicians and mechanistic studies for scientists Features extensive use of diagrams illustrations tables and graphical abstracts for each section to reinforce understanding Includes chapter contributions from leading global experts **AACR 2019 Proceedings: Abstracts 1-2748** American Association for Cancer Research,2019-03-08 American Association for Cancer Research 2019 Proceedings Abstracts 1 2748 Part A 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

Epigenetic Gene Regulation in Stem Cell Differentiation and Reprogramming Kevin Huang,2013 The regulatory capacities of epigenetic mechanisms including DNA methylation histone modifications and non coding RNAs have seen a rising interest in recent years These epigenetic marks are pervasive and non randomly distributed across the genome raising intriguing questions on how epigenetics contributes to genomic features that define cellular identity and function Unlike fixed genetic information that is shared between all cell types epigenetics involve multiple layers of regulation and can vary dramatically across different cell types and genomic contexts Thus much more effort is required to procure a complete perspective of the manifold epigenetic landscape The body of work in this dissertation focuses on epigenetic studies in the mammalian pluripotent stem cell model system We utilize high throughput technologies such as microarrays and next generation sequencing NGS as well as leverage existing epigenetic maps to address a wide range of molecular questions on a comprehensive global scale This dissertation is organized into three overarching themes First we employed genome wide gene expression and DNA methylation profiling tools to determine whether different cell types display unique biomarkers that can be used to distinguish them from other cell types Chapters 2 5 We found that human embryonic stem cells hESCs and induced pluripotent stem cells hiPSCs carry distinct features in both gene expression and DNA methylation patterns arguing in favor of the idea that these two pluripotent cell types are different Furthermore we compared pluripotent stem cell derived retinal pigmented epithelium hESC RPE and hiPSC RPE with fetal and adult RPE and found that all RPE cells share a core set of signature genes that distinguishes them from all other cell types We propose these signature genes will be useful for evaluating the quality of stem cell derived RPE Finally novel corneal endothelial cells CECs biomarkers were identified through comparing 12 other tissue types paving the way for future studies to evaluate properties of stem cell derived CECs We next examined how molecular features of pluripotent stem cells are altered during the differentiation

process of stem cells Chapters 6 8 Using the RPE differentiation paradigm we profiled both microRNA and DNA methylation patterns in intermediate stages between pluripotent stem cells and mature RPE These two separate studies identified subsets of dynamically regulated epigenetic marks some of which are associated with RPE signature gene expression Furthermore we used a highly innovative and powerful single cell RNA sequencing approach to profile transcriptional changes in the early embryo beginning from mature oocyte to morula stages This study identified a conserved genetic program describing a highly dynamic transcriptional architecture during early embryogenesis Finally we took a focused analysis on how DNA methyltransferases contribute to shaping the pluripotent stem cell epigenome Chapters 9 10 Using mouse ESCs null of DNA methylation we determined DNA methylation regulates a large set of genes through action with H3K27me3 Furthermore we determined shared and unique genomic targets of each DNA methyltransferase including novel de novo methylation activity for Dnmt1 in vivo In the human model system we generated iPSCs from ICF Syndrome patient fibroblasts which carry double heterozygous mutations in DNMT3B We found DNMT3B is involved in a wave of de novo methylation during the reprogramming process and has unique genomic targets

Epigenetic Regulation of Cancer - Part A ,2023-09-02 In *Epigenetic Regulation of Cancer* a series of volumes from the International Review of Cell and Molecular Biology series various experts in epigenetics critically cover multiple facets of cancer associated epigenetic alterations including the impact of epigenetic deregulation in all steps of oncogenesis as well as promising strategies to therapeutically target cancer associated epigenetic deregulation This collection aims at expanding our knowledge on this exciting field of investigation and providing fresh insights as a basis for further investigations that will hopefully translate into an improved clinical management of patients with cancer The collection provides accurate and critical review articles from invited experts on the selected topic Each review provides the newest insights and remarks on multiple subjects of the topic The volume offers a broad range of perspectives on detailed features

Epigenetic Regulation and Tumor Immunotherapy Mingzhu Yin,Qin Yan,Jian Cao,Bihui Huang,2022-05-27

Epigenetic Regulation of Cancer-Part C ,2024-08-23 *Epigenetic Regulation of Cancer Part C* Volume 389 in the International Review of Cell and Molecular Biology series highlights new advances in the field with this new volume presenting interesting chapters on a variety of hot topics including Epigenetic biomarkers in breast cancer Contribution of epigenetics to virus driven cancer Cancer metabolism and epigenetics Technologies for epigenome editing Epigenetics and cancer stemness Epigenetic modifications in obesity associated cancers Epigenetics in cf microRNA in blood of solid tumors Integrative analysis of transcriptome chromatin accessibility cell surface antigen in single cell level for AML and more Additional chapters cover Epigenetics in lung cancer Gene Regulatory Mechanisms underlying therapy resistance in Cancer Role of miRNAs as epigenetic regulators of immune checkpoints in cancer immunity Epigenetic contributions to Acute myeloid leukemia AML Contribution of epigenetics to chemoresistance Epigenetic contribution to the relationship between obesity and cancer and Epigenetic regulation in ovarian cancer Provides the latest information on

cancer research Offers outstanding and original reviews on a range of cancer research topics Serves as an indispensable reference for researchers and students alike **Epigenetic Therapy of Cancer** Michael Lübbert, Peter A. Jones, 2013-12-12 The growing knowledge about disturbances of epigenetic gene regulation in hematopoietic stem cell disorders is now being translated into treatment approaches that target the epigenetic defects pharmacologically This book first presents the latest evidence regarding the epigenetic regulation of hematopoietic stem cell differentiation and hemoglobin production The significance of DNA methylation abnormalities in hematopoietic disorders and of epigenetic disturbances in lung cancer and other solid tumors is then discussed A major part of the book however relates specifically to the translation of basic research and drug development to clinical applications and in this context both present and future clinical strategies are considered Individual chapters are devoted to the use of DNA hypomethylating agents and chromatin modifying agents and the treatment of hematologic malignancies and solid tumors by means of epigenetic agents is discussed in detail Epigenetics - Regulation and New Perspectives Tao Huang, 2023-11-08 Epigenetics plays a crucial role in regulating gene expression particularly in the field of transcriptomics Dysfunctions in epigenetics have been identified as key factors in the development of cancer and numerous complex diseases This book presents the most recent advancements in epigenetics omics technologies and their utilization in understanding the mechanisms of cancer and complex diseases We hope that this book will serve as an enlightening resource broadening the horizons of our readers and motivating them to explore the potential of integrating multi omics data for investigating epigenetic regulations in different biomedical scenarios *Gene Regulation, Epigenetics and Hormone Signaling* Subhrangsu S. Mandal, 2017-10-23 The first of its kind this reference gives a comprehensive but concise introduction to epigenetics before covering the many interactions between hormone regulation and epigenetics at all levels The contents are very well structured with no overlaps between chapters and each one features supplementary material for use in presentations Throughout major emphasis is placed on pathological conditions aiming at the many physiologists and developmental biologists who are familiar with the importance and mechanisms of hormone regulation but have a limited background in epigenetics Gene Regulation by Epigenetic Modifiers in Stem Cells, Cancer, and Immunology Kathleen Miuyi Yee, 2016 DNA methylation is an essential epigenetic mechanism to control gene expression with important implications for development cellular homeostasis and cancer progression A lack of DNA methylation is not compatible with embryonic development Likewise dysregulation in DNA methylation is hallmark associated with cancer development This dissertation focuses on the role of two epigenetic modifying proteins protein inhibitor of activated STAT1 PIAS1 and ten eleven translocation 2 TET2 Here I describe a newly discovered role for PIAS1 as an epigenetic gene silencer with important implications in immunosuppression stem cell maintenance and differentiation and breast tumorigenesis First PIAS1 recruits DNMT3 and HP1 to the Foxp3 promoter for epigenetic silencing in regulatory T cells Tregs In the absence of PIAS1 the Foxp3 promoter is hypomethylated with a corresponding increase in expression This allows for an increase in the

number of Treg cells in Pias1 mice that provides resistance to the development of experimental autoimmune encephalomyelitis EAE Second PIAS1 plays an important role in the maintenance and differentiation of hematopoietic stem cells HSCs by mediating proper DNA methylation at key differentiation genes such as Gata1 Without PIAS1 mediated gene silencing dormant stem cells enter the cell cycle and exhaust their self renewal properties Additionally stem cells aberrantly produce more myeloid cells than lymphoid cells in Pias1 mice Third elevated PIAS1 expression is observed in human breast cancer samples and is associated with increased tumorigenicity In the breast cancer cell line MDA MD231 PIAS1 mediates the silencing of important tumor suppressor genes such as WNT5A and CCND2 by epigenetic mechanisms Knockdown of PIAS1 expression decreases the tumorigenicity of this cell line Lastly I explore the role of TET proteins in macrophage gene activation Little is known about the role of TET proteins in the innate immune response Surprisingly TET2 is a repressor of several M1 macrophage genes whereas is required for the expression of a subset of M2 macrophage genes Correspondingly Tet2 macrophages exhibit an overexpression of several inflammatory genes important for microbial resistance which may account for the increased protection to *Listeria monocytogenes* infection in seen in Tet2 mice

Epigenetic Advancements in Cancer Manoj K. Mishra, Kumar S. Bishnupuri, 2016-05-04 This volume explores the epigenetic alterations and their association with various human cancers Considering one of human cancer as an example individual chapters are focused on defining the role of epigenetic regulators and underlying mechanisms in cancer growth and progression Epigenetic alteration including DNA methylation histone modification nucleosome positioning and non coding RNAs expression are involved in a complex network of regulating expression of oncogenes and tumor suppressor genes and constitute an important event of the multistep process of carcinogenesis Recent advances in the understanding of the epigenetic regulation and detailed information of these epigenetic changes in various cancers provide new avenues of advancements in diagnostics prognostics and therapies of this highly fatal disease

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