

Epigenetics and Human Health

Alexander Meissner  
Jörn Walter *Editors*

# Epigenetic Mechanisms in Cellular Reprogramming

 Springer

# Epigenetic Mechanisms In Cellular Reprogramming Epigenetics And Human Health

**Walter Doerfler, Josep Casadesús**



## **Epigenetic Mechanisms In Cellular Reprogramming Epigenetics And Human Health:**

**Epigenetic Mechanisms in Cellular Reprogramming** Alexander Meissner, Jörn Walter, 2014-12-11 The ability of a single genome to give rise to hundreds of functionally distinct cell type programs is in itself remarkable Pioneering studies over the past few decades have demonstrated that this plasticity is retained throughout development a phenomenon of epigenetic programming and reprogramming that remains one of the most fascinating areas of modern biology with major relevance to human health and disease This book presents the basic biology involved including key mechanistic insights into this rapidly growing field *Epigenetics Methods* Trygve O. Tollefsbol, 2025-08-26 *Epigenetics Methods* Second Edition offers an extensive overview of the tools that enhance translational epigenetics studies This edition includes updated and revised chapters along with newly added topics such as MALDI TOF MS for analyzing DNA methylation and the RIP assay for lncRNA binding Specialists provide step by step guidance on methods used to study various epigenetic mechanisms The book covers both fundamental and advanced techniques making it an essential resource for researchers in this dynamic field In addition to DNA methylation and histone modification techniques the book also explores chromatin evaluation enzyme analyses and non coding RNAs as epigenetic modulators New chapters discuss recent advancements like single cell epigenomics epigenetic editing and computational epigenetics The volume addresses reproducibility issues and offers consensus driven methods to unify approaches across experiments and labs This edition is a vital reference for understanding and employing cutting edge epigenetics methods Provides revised and updated chapters as well as new chapters covering recent developments Includes contributions by leading international investigators involved in epigenetic research and clinical and therapeutic application Integrates technology and translation with fundamental chapters on epigenetics methods as well as chapters on more novel and advanced epigenetics methods Written at verbal and technical levels that can be understood by scientists and students alike Includes chapters on state of the art techniques such as single cell epigenomics use of CRISPR Cas9 for epigenetic editing and epigenetics methods applied to forensics [Synthesis And Applications In Chemistry And Materials \(In 4 Volumes\)](#) Armando J L Pombeiro, Kamran T Mahmudov, Maria De Fatima Costa Guedes Da Silva, 2024-01-16 **Medical Epigenetics** , 2021-08-27 Selected for Doody's Core Titles 2024 in Clinical Genetics *Medical Epigenetics* Second Edition provides a comprehensive analysis of epigenetics in health management across a broad spectrum of disease categories and specialties and with a focus on human systems epigenetic diseases that affect these systems and evolving modes of epigenetic based treatment Here more than 40 leading researchers examine how each human system is affected by epigenetic maladies offering an all in one resource on medical epigenetics not only for those directly involved with health care but investigators in life sciences biotech companies graduate students and others who are interested in applied aspects of epigenetics Incorporating both diagnostic and prognostic epigenetic approaches this volume also fully supports the application of epigenetics in precision medicine This second edition of *Medical Epigenetics* a volume in the

Translational Epigenetics series has been fully revised to address recent advances in disease epigenetics and role of epigenetics in precision medicine with all new chapters on skin cancer epigenetics network analysis in medical epigenetics machine learning in epigenetic diseases and clinical trials of epigenetics drugs Features chapters from leading researchers and clinicians dedicated to the burgeoning role of epigenetics in medical practice Covers emerging topics including twin epigenetics as well as epigenetics of gastrointestinal disease muscle disorders endocrine disorders ocular medicine pediatric diseases sports medicine noncoding RNA therapeutics pain management and regenerative medicine Organized from system disorders to multi system disorders that involve epigenetic aberrations Examines the role of epigenetics in precision medicine

**Epigenetics of Infectious Diseases** Walter Doerfler, Josep Casadesús, 2017-05-26 The present volume of Epigenetics and Human Health is devoted to the patho epigenetics of viral and microbial infections an exiting new field of disease related epigenetic research As recognized during the past years epigenetic reprogramming of pathogen and host genome functions the latter frequently induced by pathogens plays an important role in many infectious processes Beyond their immediate relevance for pathogen proliferation and obligatorily associated symptoms such alterations frequently contribute to severe additional complications such as the development of immunodeficiency cancer and various chronic disorders This holds in particular for epigenetic dysregulation of host gene expression induced by latent infections The present book summarizes current knowledge of the mechanisms underlying epigenetic changes caused by viral bacterial fungal and protozoan infections and their impact on human health

**Embryonic Stem Cells** Craig Atwood, 2011-04-26 Pluripotent stem cells have the potential to revolutionise medicine providing treatment options for a wide range of diseases and conditions that currently lack therapies or cures This book describes recent advances in the generation of tissue specific cell types for regenerative applications as well as the obstacles that need to be overcome in order to recognize the potential of these cells

**Epigenetics** Rosaria Meccariello, 2019-09-11 Epigenetic changes are heritable and reversible modifications that significantly affect gene expression without any change in DNA sequence The epigenetic signature is remodelled during the lifespan as a direct consequence of both environment and lifestyle Therefore health or disease status strongly depends on epigenetic marks This book summarizes the current knowledge in the field and includes chapters on epigenetics in plants and epigenetics in health and disease It is written for a wide audience of basic and clinical scientists teachers and students interested in gaining a better understanding of 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     Epigenetics and Regeneration ,2019-05-24 Epigenetics and Regeneration compiles the first foundational reference on epigenetic mechanisms governing tissue development repair homeostasis and regeneration as well as pathways to employ these mechanisms in clinical practice and translational science In this book life science researchers clinicians and students will discover an interdisciplinary resource bringing together common themes in the field background overviews research methods recent advances and opportunities for drug discovery Throughout this volume special attention is paid to pre clinical and first clinical studies aimed at increasing the regenerative potential of damaged tissues by epigenetic drugs as well as innovative discipline spanning strategies to enhance cell reprogramming As an all inclusive evidence based volume Epigenetics and Regeneration will stimulate discussion and boost new research in this fascinating and impactful area of translational epigenetics Provides a foundational overview of epigenetics in regenerative medicine Examines epigenetic components of tissue regeneration for a variety of organ systems and tissue types as well as current attempts to employ these mechanisms in clinical practice Offers researchers students clinicians and pharmacologists the tools they need to enhance tissue development repair homeostasis and regeneration and explore new epigenetic therapeutic pathways Features chapter contributions from leading international researchers and clinicians in the fields of epigenetics and regenerative medicine     *Nutrition in Epigenetics* Mihai D. Niculescu,Paul Haggarty,2011-03-25 The study of epigenetics or how heritable changes in gene expression are regulated without modifying the coding DNA sequence has become an increasingly important field of study in recent years Rapid developments in our understanding of the way in which gene function is modulated by the environment has revolutionized the way we think about human development and health Nutrition in Epigenetics reviews the latest research looking at the interaction between genes and nutrients and the role they play together in maintaining human health Nutrition in Epigenetics is divided into two primary parts The first part provides key principles such as epigenetic mechanisms developmental epigenetics and the role of epigenetics in disease The second part looks specifically at the application of epigenetics to the field of human nutrition Chapters review the role of specific nutrients in modulating epigenetic status and the effect on health and disease Nutrition in Epigenetics is an indispensable resource for researchers professionals and advanced students with an interest in human nutrition epigenetics and biomedical research     *Brenner's Encyclopedia of Genetics* Stanley Maloy,Kelly Hughes,2013-03-03 The explosion of the field of genetics over the last decade with the new

technologies that have stimulated research suggests that a new sort of reference work is needed to keep pace with such a fast moving and interdisciplinary field Brenner's Encyclopedia of Genetics Second Edition Seven Volume Set builds on the foundation of the first edition by addressing many of the key subfields of genetics that were just in their infancy when the first edition was published The currency and accessibility of this foundational content will be unrivalled making this work useful for scientists and non scientists alike Featuring relatively short entries on genetics topics written by experts in that topic Brenner's Encyclopedia of Genetics Second Edition Seven Volume Set provides an effective way to quickly learn about any aspect of genetics from Abortive Transduction to Zygotes Adding to its utility the work provides short entries that briefly define key terms and a guide to additional reading and relevant websites for further study Many of the entries include figures to explain difficult concepts Key terms in related areas such as biochemistry cell and molecular biology are also included and there are entries that describe historical figures in genetics providing insights into their careers and discoveries This 7 volume set represents a 25% expansion from the first edition with over 1600 articles encompassing this burgeoning field Thoroughly up to date with many new topics and subfields covered that were in their infancy or not in existence at the time of the first edition Timely coverage of emergent areas such as epigenetics personalized genomic medicine pharmacogenetics and genetic enhancement technologies Interdisciplinary and global in its outlook as befits the field of genetics Brief articles written by experts in the field which not only discuss define and explain key elements of the field but also provide definition of key terms suggestions for further reading and biographical sketches of the key people in the history of genetics

*Epigenetics and DNA Damage* Miriam Galvonas Jasiulonis, 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

**Plant Epigenetics** Nikolaus Rajewsky, Stefan Jurga, Jan Barciszewski, 2017-04-27

This book presents in 26 chapters the status quo in epigenomic profiling. It discusses how functional information can be indirectly inferred and describes the new approaches that promise functional answers collectively referred to as epigenome editing. It highlights the latest important advances in our understanding of the functions of plant epigenomics and new technologies for the study of epigenomic marks and mechanisms in plants. Topics include the deposition or removal of chromatin modifications and histone variants, the role of epigenetics in development and response to environmental signals, natural variation and ecology as well as applications for epigenetics in crop improvement. Discussing areas ranging from the complex regulation of stress and heterosis to the precise mechanisms of DNA and histone modifications, it presents breakthroughs in our understanding of complex phenotypic phenomena.

*Environmental Threats to Human Reproduction*

Roland Eghoghosa Akhigbe, Tulay Irez, 2025-04-04. Environmental contaminants have increasingly affected humans negatively. They have been implicated in the aetiopathogenesis of cancer, obesity, diabetes, metabolic syndrome, and infertility. The impact of environmental pollutants on human reproductive function has gained significant attention, stimulated in part by the remarkable damage inflicted by environmental pollutants that act as endocrine-disrupting chemicals. Environmental endocrine disruptors have different mechanisms of action. They have been reported to act via classical nuclear receptors, oestrogen-related receptors, and membrane-bound oestrogen receptors, resulting in alteration of hormonal and homeostatic systems. Modulation of DNA methylation and histone modifications, genomic instability, and cross-talk between genomic and non-genomic pathways has also been shown to play significant roles. Despite the reported harmful effects, humans remain constantly exposed to this highly heterogeneous group of molecules which are found in plastics, pesticides, pharmaceuticals, and personal care products and industrial solvents. Hence, it is pertinent to explore other mechanisms of actions of these chemicals interfering with different hormonal pathways and possible prophylactic and therapeutic measures in curtailing their attendant reproductive health consequences. This thematic issue focuses on the impacts of environmental endocrine disruptors on human reproduction. Novel findings demonstrating the interference and bio-molecular mechanisms of environmental endocrine disruptors in the human reproductive system and/or studies proposing new prophylactic and therapeutic horizons in the management of environmental endocrine disruptor-induced infertility would be prioritized. Potential topics include but are not limited to the following: i) Identification of novel environmental endocrine disruptors; ii) Role of environmental endocrine disruptors in infertility; iii) Environmental endocrine disruptors and reproductive immunology; iv) Environmental endocrine disruptors and genomic stability; v) Impact of environmental endocrine disruptors on prenatal life and development; vi) Impacts of environmental endocrine disruptors on epigenetic regulation; vii) Impact of nutraceuticals on environmental endocrine disruptors-induced infertility. Papers are published upon acceptance regardless of the Thematic Issue publication date.

**Hayes' Principles and Methods of Toxicology** A. Wallace Hayes, Tetyana Kobets, 2023-07-03

Hayes Principles and Methods of Toxicology has long been established as a reliable and informative reference for the concepts methodologies and assessments integral to toxicology The new edition contains updated and new chapters with the addition of new authors while maintaining the same high standards that have made this book a benchmark resource in the field Key Features The comprehensive yet concise coverage of various aspects of fundamental and applied toxicology makes this book a valuable resource for educators students and professionals Questions provided at the end of each chapter allow readers to test their knowledge and understanding of the material covered All chapters have been updated and over 60 new authors have been added to reflect the dynamic nature of toxicological sciences New topics in this edition include Safety Assessment of Cosmetics and Personal Care Products The Importance of the Dose Rate Response Novel Approaches and Alternative Models Epigenetic Toxicology and an Expanded Glossary The volume is divided into 4 major sections addressing fundamental principles of toxicology Section I Principles of Toxicology major classes of established chemical hazards Section II Agents current methods used for the assessment of various endpoints indicative of chemical toxicity Section III Methods as well as toxicology of specific target systems and organs Section IV Organ and System Specific Toxicology This volume will be a valuable tool for the audience that wishes to broaden their understanding of hazards and mechanisms of toxicity and to stay on top of the emerging methods and concepts of the rapidly advancing field of toxicology and risk assessment

**Pharmacoeugenetics** Ramón Cacabelos, 2025-07-18 Pharmacoeugenetics Second Edition a volume within the Translational Epigenetics series is a comprehensive reference on the role of epigenetics and epigenomics in drug discovery and development providing a detailed but accessible view of the field from basic principles to applications in disease therapeutics Leading international researchers from across academia clinical settings and the pharmaceutical industry discuss the influence of epigenetics and epigenomics in human pathology epigenetic biomarkers for disease prediction diagnosis and treatment current epigenetic drugs and the application of epigenetic procedures in drug development Throughout the book chapter authors offer a balanced and objective discussion of the future of pharmacoeugenetics and its crucial contribution to the growth of precision and personalized medicine The new edition has been fully revised to address recent advances in epigenetics from new natural and synthetic compounds with epigenetic effects to the role of epigenetics in the pathogenesis of a growing number of complex diseases including further cancers cardiovascular disorders and brain disorders Newly identified molecular components in the functional architecture of the epigenetic machinery as well as practical and relevant pharmacoeugenetics topics related to COVID 19 and other world health challenges are also discussed Each chapter has been updated to include a chapter summary keywords and definitions and further color figure and charts for learning reinforcement along with clinical research case studies illustrating key research in the field and making findings and research approaches more actionable for readers Fully examines the influence of epigenetics and epigenomics in human pathology epigenetic biomarkers for disease prediction diagnosis treatment current epigenetic drugs and the application of



epigenetic procedures in drug development Features chapter contributions from leading international researchers in academia clinical settings and the pharmaceutical industry Instructs researchers students and clinicians in better interpreting and employing pharmacoepigenetics in drug development efficiency and safety Incorporates recent advances including epigenetic drugs and biomolecules with epigenetic effects in cancer cardiovascular disorders brain disorders and COVID 19 Includes chapter definitions key words and summaries to reinforce understanding as well clinical research case studies illustrating key research in the field

### **PSYCHOLOGICAL SUPPORT BY COGNITIVE BEHAVIORAL THERAPY FOR LYSOSOMAL STORAGE DISORDERS**

Edenilson Brandl, The complex and multifaceted experience of living with lysosomal storage disorders LSDs demands not only a deep understanding of the medical and genetic aspects but also a comprehensive approach to psychological support This book Psychological Support by Cognitive Behavioral Therapy for Lysosomal Storage Disorders aims to bridge these two domains medical science and psychological resilience to provide individuals affected by LSDs and their support systems with tools and techniques rooted in Cognitive Behavioral Therapy CBT Lysosomal storage disorders are a group of rare inherited diseases marked by an inability to break down certain complex molecules due to deficiencies in lysosomal enzymes These disorders can impact numerous aspects of physical health from joint pain to cognitive challenges leading to a broad spectrum of life adjustments For those navigating these conditions both the emotional weight of the diagnosis and the lifelong management demands can be overwhelming By addressing these challenges with structured psychological support individuals may find improved ways to cope adapt and thrive despite the physical and emotional tolls CBT a well established and evidence based therapy is designed to help individuals recognize and reframe negative thought patterns develop healthier behaviors and foster resilience In the context of LSDs CBT can be particularly valuable in managing feelings of trauma grief and identity challenges as well as chronic pain and other physical symptoms This book not only introduces CBT principles and techniques but also tailors these approaches to the specific needs of individuals affected by LSDs providing actionable tools for improving mental health and overall quality of life In addition to the CBT framework this book includes foundational insights into genetics epigenetics and the biology behind LSDs These topics serve as essential knowledge for both individuals with LSDs and those around them fostering a greater understanding of the genetic journey and the implications of these conditions By connecting this biological foundation to the emotional experience we seek to create a holistic resource that supports readers personal journeys with insight and compassion We hope this book serves as a supportive guide for patients families and healthcare professionals alike offering an integrative approach to managing lysosomal storage disorders through the power of psychological resilience

### ***PSYCHOLOGICAL SUPPORT BY COGNITIVE BEHAVIORAL THERAPY FOR DUCHENNE MUSCULAR DYSTROPHY***

Edenilson Brandl, Duchenne Muscular Dystrophy DMD is a life altering genetic disorder that affects the physical emotional and psychological well being of individuals and their families It brings with it a range of physical challenges from progressive

muscle weakness to chronic pain but also a host of emotional and mental health issues such as depression anxiety and feelings of loss or inadequacy As advances in medical science allow individuals with DMD to live longer the importance of addressing their mental health becomes increasingly evident This book aims to bridge the gap between the physical and psychological care of those affected by DMD offering practical tools through Cognitive Behavioral Therapy CBT to help manage the emotional and psychological effects of living with this chronic condition By combining insights into the biology and genetics of DMD with CBT techniques this book offers a holistic approach to addressing both the physical and mental health challenges that accompany the disorder The topics within this book range from an introduction to the basics of genetics and epigenetics to specific CBT tools designed to help individuals and their families navigate the emotional complexities of living with DMD Whether you are a healthcare provider caregiver or someone affected by Duchenne Muscular Dystrophy this resource will provide you with strategies for coping with the psychological impacts fostering resilience and improving overall well being By focusing on both the scientific and therapeutic aspects of DMD we hope to offer a well rounded approach to the treatment and support of those living with this condition This book is designed to be a practical guide filled with actionable steps coping mechanisms and a deep understanding of the cognitive and emotional needs that arise from living with a degenerative condition We believe that with the right psychological support it is possible to manage not just the physical aspects of DMD but also to foster emotional strength and mental resilience This is not just about surviving with DMD it is about thriving finding hope and cultivating a life filled with meaning and purpose despite the challenges We sincerely hope that this book will serve as a valuable resource for those affected by DMD and for professionals seeking to enhance their understanding and care for this community

**Mastering Genetics: Unraveling the Code of Life** Dominic Front, Delve into the intricate world of genetics with Mastering Genetics Unraveling the Code of Life This comprehensive guide offers a captivating journey through the fundamental principles cutting edge research and ethical considerations of genetics From Mendelian inheritance to molecular genetics population genetics to human genetics epigenetics to comparative genomics each chapter provides in depth explanations practical applications and thought provoking discussions Explore the timeless laws of inheritance laid down by Gregor Mendel the molecular mechanisms underlying DNA replication and gene expression and the revolutionary advances in genetic engineering and gene editing Gain insights into the fascinating diversity of life forms from microbes to humans and discover how genetics shapes our understanding of evolution biodiversity and disease With engaging case studies illustrative examples and informative graphics Mastering Genetics equips readers with the knowledge and skills needed to navigate the complexities of genetics in the modern world Whether you re a student researcher or enthusiast this book will inspire you to unlock the secrets of the genome and appreciate the profound impact of genetics on society health and the environment Embark on a transformative journey into the heart of genetics and embark on a quest to master the code of life Chemical Environmental Pollutants

and their Effect on Health Aikaterini Salavoura, 2025-04-07 This book focuses on the impact of environmental chemicals on human health. Its coverage includes metals contaminating the environment, persistent organic pollutants (POPs), air pollution, and endocrine disruptors. Harmful consumer products, workplace exposure, cosmetics, and microplastic waste are described. Since most chemical substances are related to degenerative disorders and other communicable diseases, the proposed models of disease are analyzed, including cancer and psychiatry disorders. To provide an understanding of the mechanisms of diseases due to exposure, the book also covers basic background knowledge in genetics and epigenetic mechanisms. Oxidative stress and antioxidant mechanisms of the body are presented, and how chronic inflammation and oxidative stress leads to disease. Finally, the role of a well-balanced diet and ingredients in the diet which prevent disease, as well as the mechanisms of prevention, are emphasized.

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