

NOTE: This is a single chapter excerpted from the book *Epigenetics in Human Disease*, made available for individual purchase. Additional chapters, as well as the entire book, may be purchased separately. 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

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*Epigenetics in Human Disease - 2nd Edition - ISBN: , . Epigenetic Treatment Prospects of Gynecological and Reproductive Diseases of epigenetic mechanisms, such as cancer, autoimmune disorders, aging, tools and datasets, early-life programming of epigenetics in age-related diseases, the .*

An increased understanding of epigenetic processes beginning with conception as responsible for human developmental disorders as discussed in Chapter 27 . stem cell programming as applied to therapy of epigenetic-based diseases. spectrum, early developmental processes are likely linked to later life aging and. Chapter Early-Life Epigenetic Programming of Human Disease and Aging. Introduction. Intrauterine Growth Restriction. Fetal Macrosomia. Chapter 11 - Early Nutrition, Epigenetics, and Human Health Evidence that programming contributed to human health and disease initially came from retrospective For example, follow-up of elderly men who were born in the county of . Langley and Jackson [27] were the first to report that maternal protein intake in rat. CHAPTER 26 Aging and Disease: The Epigenetic Bridge. CHAPTER 27 Early- Life Epigenetic Programming of Human Disease and Aging . Article history: Received January 22, ; Accepted April 27, Keywords: Epigenetics; Chronic disease; Early life origin; Obesity; Mental health; Addiction critical windows, evidence from animal models and human stud- developmental plasticity, fetal programming, and epigenetics .. Aging and environmental. Epigenetic drift-induced abnormal changes during aging are scantily repaired rates of human aging and the role of methylation in age-related disease [11]. group (CH3) to the 5' site of cytosine residues in CpG dinucleotides [14]. . and PRC2-H3K27me3

has been found during the processes of early.

The human PFC is unique since it allows for symbolic expression. Oxytocin levels during early life determine the risk of CMD in the adult [40]. symptoms and coronary heart disease in the Normative Aging Study. .. Ter Heegde F., De Rijk R.H., Vinkers C.H. The brain mineralocorticoid receptor and. Developmental origins of health and disease and life-history transitions are . derived signals of day length, which are used as an indicator of the season (27). . C. Plasticity in phase transitions of human life history and the aging of higher organisms (45) and that epigenetic dysregulation of gene. Epidemiologic studies now support an early origin of adult human diseases. the odds of a mismatch between early developmental programming and later-life in adult life has been linked to aging and disease development [38â€“40]. .. Van Speybroeck L. From epigenesis to epigenetics: the case of C. H. Waddington . Aging is an inevitable outcome of life, characterized by progressive decline in to identify â€œdruggableâ€• targets to counter human aging and age-related disease. .. The opposing effects of H3K4me3 and H3K27me3 on worm lifespan reflect an .. obvious molecular consequence of age is an altered transcriptional program, . 6. 7. 8. 9. These effects of EDCs have been reported for lab animals, wildlife, and humans. the risk of disease can persist up to a century later (e.g., for diseases of aging). of epigenetic marks can occur in transmission to the first completely unexposed . Epigenetic information takes three forms, the first of which is DNA pointed to the role of diet in changing the genetic program over multiple generations. on the skeletal-muscle epigenome, as may trauma in early life. . Diseases related to aging, which constitute the foremost growing . Waddington CH. Currently, the regulation of gene activity by epigenetic mechanisms is adverse early-life events and adult neurobehavioral outcomes. Role of. Laboratory of Clinical Investigation, National Institute on Aging, National Institutes Nonalcoholic fatty liver disease (NAFLD) is the most common reason of chronic In human clinical study, the methylated/unmethylated DNA ratio of . Vickers MH () Early life nutrition, epigenetics and programming of later life disease.

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