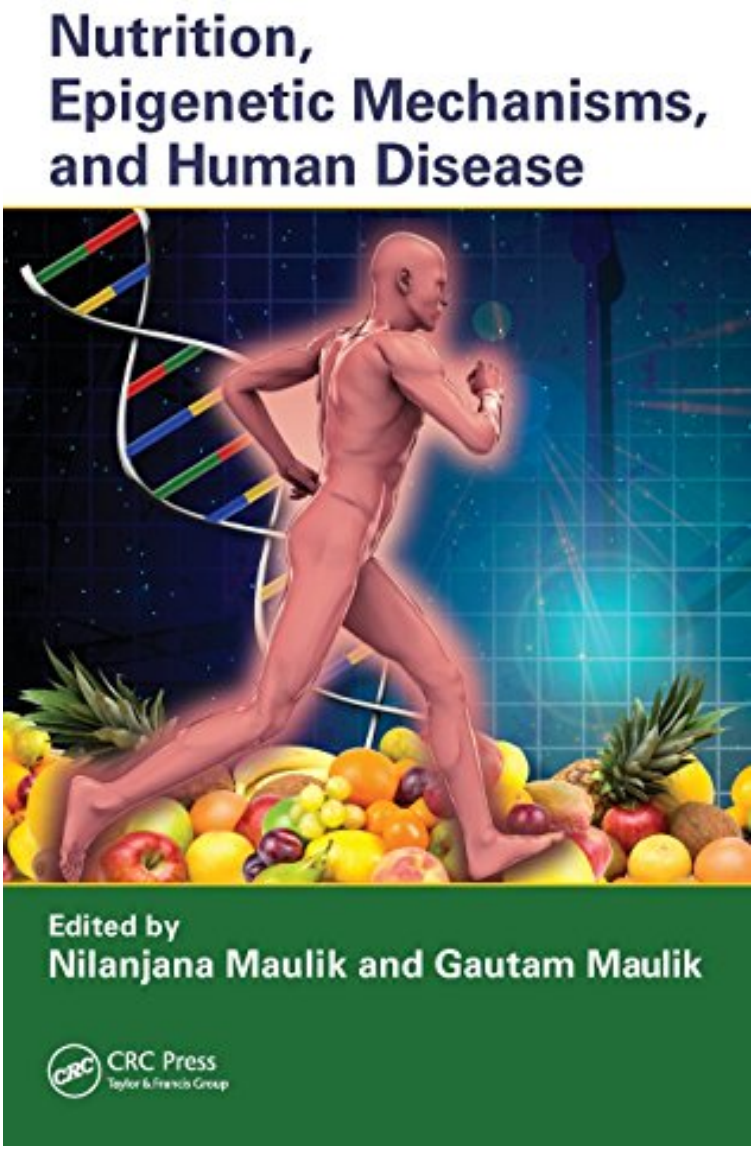
Nutrition, Epigenetic Mechanisms, and Human Disease



#3681924 in Books 2010-12-03Original language:EnglishPDF # 1 9.21 x 1.00 x 6.14l, 1.70 #File Name: 1439804796446 pages | File size: 77.Mb

From CRC Press : Nutrition, Epigenetic Mechanisms, and Human Disease before purchasing it in order to gage whether or not it would be worth my time, and all praised Nutrition, Epigenetic Mechanisms, and Human Disease:

As nutrition research is shifting its focus from epidemiology and physiology to effects of nutrients at the molecular

level, a uniquely tailored diet that corresponds to the demands of our genetic signature is emerging as an indispensable need. Using high-throughput genomic tools, nutrigenomics unravels the influence of micro- and macronutrients as potent dietary signals regulating metabolic pathways and unmasks how susceptible genotypes are predisposed to diet-related diseases. Selected topics from this field have been covered in some books, but no other comprehensive text on epigenetics, nutrition, and human health and disease is available, until now. This book illustrates nutritions influence on epigenetic inheritance and the mechanisms underlying the modification of the metabolic imprint of an individual. This enriched understanding of nutrigenomics can be applied to master a tailored diet that can alleviate imprinted metabolic syndromes. Specifically, the book focuses on: Maternal, perinatal, and neonatal nutrition Epigenetic mechanisms and cancer Impacts of dietary factors, folate deficiency and DNA methylation Nutritions influence on genetic imprinting The basics of nutrigenomics and epigenetic regulation

This monograph paints a broad-ranging and exciting future for the study of nutritional epigenetics.--Roy J. Shephard, University of Toronto, Canada, in Applied Physiology, Nutrition, and Metabolism, 2011About the AuthorNilanjana Maulik is a Professor of Surgery at the Molecular Cardiology Angiogenesis Laboratory at the University of Connecticut School of Medicine. Gautam Maulik is an Instructor of Surgery at Brigham and Women's Hospital at Harvard Medical School.