



Nutritional Genomics: The Impact of Dietary Regulation of Gene Function on Human Disease

By -

CRC Press, 2011. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: The notion of matching diet with an individual's genetic makeup is transforming the way the public views nutrition as a means of managing health and preventing disease. To fulfill the promise of nutritional genomics, researchers are beginning to reconcile the diverse properties of dietary factors with our current knowledge of genome structure and gene function. What is emerging is a complex system of interactions that make the human genome exquisitely sensitive to our nutritional environment. *Nutritional Genomics: The Impact of Dietary Regulation of Gene Function on Human Disease* provides an integrated view of how genomic and epigenetic processes modulate the impact of dietary factors on health. Written as a resource for researchers, nutrition educators, and policy makers, this book contains the latest scientific findings on the mechanisms of action underlying diet-genome interactions. It presents a unique perspective on the fundamentals of nutritional genomics from genomics, transcriptomics, proteomics, and metabolomics. Contributing authors introduce the important areas of cell signaling and transduction, the intricate regulation of gene expression, and alteration of gene-linked chronic diseases, such as obesity-induced inflammation, insulin resistance, metabolic syndrome, cardiovascular disease, and...



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