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Nota di contenuto	Nutrigenomics and Proteomics in Health and Disease; Contents; Preface; Contributors; Section I Introduction; 1 Nutrigenomics and Proteomics in Health and Disease: An Overview; 2 Omics in Nutrition and Health Research; Section II Genomics and Proteomics in Health and Diseases; 3 Toward Personalized Nutrition and Medicine: Promises and Challenges; 4 Obesity and Nuclear Receptors: Effective Genomic Strategies in Functional Foods; 5 Inflammatory Genes Involved in Obesity-Induced Inflammatory Responses and Pathologies; 6 Genomics and Proteomics in Allergy Section III Food Factors-Gene Interactions7 Beneficial Effects of Conjugated Linoleic Acid; 8 Regulation of Gene Transcription by Fatty Acids; 9 Nonnutrient Functionality of Amino Acids; 10 Functional Bioactive Proteins and Peptides in Nutrigenomics; 11 Antiobesity Effect of Allenic Carotenoid, Fucoxanthin; 12 Control of Systemic Inflammation and Chronic Diseases-The Use of Turmeric and Curcuminoids; 13 Alteration in Gene Expression and Proteomic Profiles

by Soy Isoflavone; 14 Green Tea Polyphenol-Modulated Genome Functions for Protective Health Benefits  
15 Oat Avenanthramides: A Novel Antioxidant  
16 Cancer-Preventive Effects and Molecular Actions of Anthocyanins; 17 Food Components Activating Capsaicin Receptor TRPV1; 18 New Therapeutic Effects of Anthocyanins: Antiobesity Effect, Antidiabetes Effect, and Vision Improvement; 19 Licorice Flavonoids; 20 Isoprenols; 21 Anti-inflammatory and Anticarcinogenesis Potentials of Citrus Coumarins and Polymethylated Flavonoids; 22 Probiotics: Food for Thought; Section IV Advanced Analytical Techniques for Nutrigenomics and Proteomics  
23 Microarrays: A Powerful Tool for Studying the Functions of Food and Its Nutrients  
24 Challenges and Current Solutions in Proteomic Sample Preparations; 25 Computational Methods in Cancer Gene Networking; 26 Peptidomics; Index

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Sommario/riassunto

Part of the Functional Food Science and Technology book series (Series Editor: Fereidoon Shahidi), this book compiles the current science based upon nutrigenomics and proteomics in food and health. Coverage includes many important nutraceuticals (food factors) and their impact on gene interaction and health. Authored by a stellar international team of multidisciplinary researchers, this book acquaints food and nutrition professionals with these new fields of nutrition research and conveys the state of the science to date.

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