

Special Issue

The Quest for Human Health in the Genomic Era: Nutrigenomics Approaches to Natural Products

Message from the Guest Editors

In the genomic era, nutrition is no longer seen merely as a source of energy but as a powerful tool in influencing human health. Nutrigenomics reveals how natural dietary compounds can modulate biological pathways and (epi)genetic mechanisms. This growing field highlights how natural dietary components may contribute to health promotion and disease prevention. This Special Issue will focus on the role of phytochemicals and plant extracts enriched in specific bioactives, exploring their molecular mechanisms and nutrigenomic effects. Particular attention will be given to bioactive molecules such as polyphenols, flavonoids, and plant extracts. These substances have demonstrated the ability to influence transcription factors, non-coding RNAs, and epigenetic markers, with implications for the prevention and management of chronic diseases. We welcome original research, reviews, and case studies that examine how natural products can be used as genomic modulators to promote human health in the context of diet-related chronic diseases, aging, metabolic dysfunction, and inflammation.

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About the Journal

Message from the Editorial Board

Nutrients is an on-line open access journal that was first published in 2009. *Nutrients* adheres to rigorous peer-review and editorial processes and publishes only high quality manuscripts that address important issues related to the impacts of nutrients on human health. The Impact Factor of *Nutrients* has risen rapidly since its establishment and it is now ranked in the first quartile of journals publishing in the field of nutrition and dietetics research.

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