

Special Issue

Nutrigenetics, Nutrigenomics, and Precision Nutrition in Complex Diseases

Message from the Guest Editor

Recent advances in genomic research have greatly enhanced our knowledge of disease-related metabolic pathways, highlighting at the same time potential new intervention targets. Complex diseases have been linked, through epidemiological studies, to lifestyle and diet, with a substantial body of evidence showing that gene–nutrient interactions impact molecular mechanisms.

In order to better tailor treatment to the individual and/or improve prevention strategies for complex diseases, it is essential to establish people's metabotypes through the combined application of nutritional and genetic epidemiology with metabolite and molecular profiling at the gene, transcriptome, proteome, and metabolome level. An additional level of complexity that needs to be considered when establishing metabotypes is the individual's gut microbiome.

The purpose of this Special Issue is to collect original research reports and review articles that highlight recent advances in the field of nutritional genomics and metagenomics in complex diseases. We welcome studies with various experimental designs, functional studies, clinical trials, epidemiological studies, and meta-analyses.

Guest Editor

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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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