



nutrients



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Nutrigenetics, Nutrigenomics, and Precision Nutrition in Complex Diseases

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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 metabolotypes though 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 metabolotypes 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.



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