



Nutrition, microRNAs and Human Health

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Nutrient intakes affect the transcriptional and translational levels of genes, in particular metabolic genes. The expressional changes of metabolic genes induce many chronic diseases, including lifestyle diseases such as type 2 diabetes, hypertension, lipid abnormalities, and their complications. Recent advances have suggested that expression changes of metabolic genes by nutrient intakes are regulated by a novel mechanism based on microRNAs. MicroRNAs regulates expression of a set of genes by regulating mRNA stability and protein translation. Furthermore, microRNAs can alter expression of genes by regulating epigenetic memories such as histone modifications and DNA methylation. In addition, some microRNAs are secreted to blood in exosomes, and daily nutrient intakes and risk of development of lifestyle diseases can be assessed by microRNAs in blood. Based on all these, you are invited to submit proposals for manuscripts that fit the objectives and topics of this Special Issue.

Dr. Kazuki Mochizuki
Guest Editor





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Message from the Editorial Board

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