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We Are What We Eat: The Role of Food Intake on Human Metabolome

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Message from the Guest Editors

Dear Colleagues,

Both nutrients and their metabolites constitute key biological and functional outputs linking metabolic pathways with health and disease. Advances in research methods and techniques, such as metabolomics, have made it possible to characterize the human and animal metabolome and how it changes in different food and nutritional contexts or following dietary interventions. This can strengthen research and nutritional science by: a) defining and validating biomarkers of food intake; and b) objectively interpreting how food intake and nutrition impact health and disease.

This Special Issue aims to present outstanding research on how diet/food intake relates to and impacts circulating and tissue-specific metabolites, characterizing metabolic responses to nutrition in the context of health and disease. It will cover: a) studies analyzing metabolic changes following nutritional/dietary interventions in humans and animal models; b) studies focusing on the identification and validation of biomarkers for food intake; and c) studies investigating shifts in metabolism and quantification of certain molecules under specific nutritional contexts.

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Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

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