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The Relationship between Physical Activity, Food Intake and Metabolic Diseases

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Message from the Guest Editor

Metabolic diseases are any of the diseases or disorders that disrupt normal metabolism, the process of converting food to energy on a cellular level. These diseases include obesity, diabetes, liver diseases, some cancers, and are the leading cause of death in both the developed and developing world. Epidemiologic, animal, clinical and metabolic studies demonstrate the independent roles and possible synergistic/additive effects of physical activity and nutrition in the prevention and treatment of these diseases. The objective of this Special Issue is to bring together multidisciplinary scientists who are exploring new frontiers in either the complex relationships between the different components of physical activity, food intake and metabolic health outcomes, including the underlying mechanisms (e.g., inter-organ cross-talk communications), or the development and application of new techniques to advance our understanding of the causes, prevention and treatment of metabolic diseases.



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