

Special Issue

Micronutrients in Metabolic Health

Message from the Guest Editor

Obesity and type 2 diabetes (T2D) are a major public health problem. Nutritional imbalances, either macro- or micro-nutrient intake during the prenatal or postnatal life, could lead to epigenetic reprogramming which is associated to increased obesity, T2D, gestational diabetes, and cardiovascular disease. More importantly, recent studies in micronutrient deficiency during pregnancy have been shown to induce distinctive changes in the epigenome and increase metabolic risk. By contrast, sufficient nutrient intake has shown improved epigenetic marks and mitigated disease risk. However, the mechanistic understanding of these micronutrients in metabolic diseases is still limited, which can regulate a large collection of coding and noncoding transcripts involved in metabolic pathways. Hence, the goal of this Special Issue is to broaden the molecular understanding on the role of micronutrients and epigenetic mechanisms, which will uncover strategies to target epigenetic plasticity which may, in the future, offer novel and realistic opportunities to prevent and treat obesity and related disorders.

Guest Editor

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