

## Special Issue

# Molecular Mechanisms of Plant Extracts in the Prevention and Treatment of Obesity

### Message from the Guest Editor

Obesity is a complex, chronic disease characterized by the dysregulation of lipid homeostasis and dysfunction of adipose tissue. It is closely linked to non-communicable diseases (NCDs) such as insulin resistance, type 2 diabetes, dyslipidemia, non-alcoholic fatty liver disease (NAFLD), and cardiovascular disease (CVD). Given the rising global prevalence of obesity, there is an increasing need to investigate the molecular mechanisms that regulate lipid homeostasis and the dysfunction of adipose tissue associated with obesity and related metabolic disorders. Recently, plant-derived compounds have emerged as promising sources of anti-obesity agents. These compounds can inhibit adipocyte differentiation and lipogenesis or promote lipolysis to reduce lipid accumulation. Therefore, therapeutic approaches using plant extracts that target these molecular mechanisms may offer promising options for the prevention and treatment of obesity and related metabolic diseases.

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### Guest Editor

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## International Journal of Molecular Sciences

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