

Special Issue

Molecular Research Advances in Metabolic Syndrome

Message from the Guest Editor

Metabolic syndrome (MetS) is a multifactorial condition characterized by a constellation of risk factors—including central obesity, dyslipidemia, insulin resistance, and hypertension—which predispose individuals to cardiovascular diseases, type 2 diabetes, and increased susceptibility to infections. Emerging molecular research has revealed intricate links between MetS and sepsis, highlighting how chronic metabolic inflammation compromises immune responses. This Special Issue aims to gather high-quality studies that delve into the molecular mechanisms underlying MetS, with a focus on inflammation, mitochondrial dysfunction, immune–metabolic crosstalk, and therapeutic interventions. Both experimental (animal and cellular models) and clinical research studies are welcome. We encourage contributions that challenge conventional views and provide novel insights into the paradoxes and pathophysiology of MetS in diverse disease contexts.

Guest Editor

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Message from the Editor-in-Chief

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