

Special Issue

Metabolic Syndrome from the Perspectives of Genetics, Genomics and Proteomics

Message from the Guest Editors

Metabolic syndrome (MetS) is the cluster of various metabolic abnormalities that includes high blood glucose levels, hypertension, hyperlipidemia, abdominal obesity as well as low HDL levels sometimes. The World Health Organization illustrates that the presence of three or more of these metabolic abnormalities constitutes metabolic syndrome. According to data from the IDF Atlas, global prevalence of diabetes—which is the highest contributor towards MetS—is at 8.8% and is only increasing; MetS, which is more than three times more common than diabetes itself, can be estimated to effect 25% of the world population. Recent advancements in genetics and genomics approaches have allowed us to better understand metabolic diseases. For example, recent genome-wide association studies (GWAS) have identified many new loci and genes associated with BMI and blood glucose levels. Moreover, advanced genomics and other multi-omics approaches have enabled us to study these new loci and genes more robustly in a high-throughput manner.

Guest Editors

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