



## New Insights into the Association between Metabolic Syndrome Components and the Development of Atherosclerosis

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Deadline for manuscript  
submissions:

**closed (31 March 2021)**

### Message from the Guest Editor

Metabolic syndrome (MetS) defines a cluster of interrelated cardiovascular risk factors including obesity, hyperglycemia, hypertension, dyslipidemia, insulin resistance, and central adiposity, linked to chronic inflammation, that severely increases the risk of cardiovascular diseases (CVD).

Clinical and experimental evidence has demonstrated a close link between MetS and the risk of developing atherosclerosis, whereas the underlying mechanisms remain to be elucidated. In terms of the relationship between MetS and atherosclerosis, obesity and its metabolic disarrangements, including lipid and lipoprotein metabolism, inflammation, oxidative stress, and microbiota have been the most studied topics. Furthermore, the complex crosstalk among metabolic organs and tissues suggests the importance that the intracellular and intercellular communication may play in the pathogenic process of the disease.

In this Special Issue, original research and reviews of the literature evaluating the cellular and molecular aspects linking MetS components with the development of atherosclerosis are encouraged. Submissions with an emphasis on emerging approaches including omics are welcome.





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