

Special Issue

Novel Therapeutic Approaches for Endothelial Dysfunction

Message from the Guest Editor

The preservation of vascular wall integrity and functionality is an unmet medical need. The vascular tree is frequently the first target of slowly progressive degeneration caused by ageing, fat-rich diet, or metabolic diseases. These factors affect the integrity of endothelium and its “barrier” function, supporting the onset of atherosclerotic plaque and spreading inflammation. Consequent endothelial dysfunction leads to decreased nitric oxide (NO) biosynthesis, impaired regulation of vascular tone, and platelet aggregation, which are prodromic of hypertension and coagulopathy. More rarely, a massive endothelial disruption was induced by acute inflammatory events like such as bacterial or viral infections, as observed during the last year with the Coronavirus disease (COVID-19), induced by SARS-CoV-2 infection. Indeed, the vascular endothelium was one of the main tissues under attack during the cytokines storm evoked by COVID-19. This Special Issue aims to evaluate and identify therapeutic and/or nutraceutical approaches that can provide an answer to this compelling unmet medical need.

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2022)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/95792

*International Journal of
Molecular Sciences*
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