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Vascular Endothelial Functions in Health and Diseases

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submissions:

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Message from the Guest Editors

Dear Colleagues,

This Special Issue provides a comprehensive review of the rapidly expanding field of vascular biology. The vascular endothelial cell layer separates blood from underlying tissue, thereby exerting multiple functions including control of vascular tone and hemodynamics, participation in blood clotting, modulation of immune reactions, triggering angiogenesis, and exchange of substances between blood and tissues. Therefore, endothelial dysfunction or damage is a cause of several human pathologies such as chronic wounds, cardiovascular diseases, diabetes, cancer, lung and brain injury, and infectious diseases, including COVID-19. Advancement in endothelial protection and correction of endothelial dysfunction requires the identification of the key molecules that participate in signaling cascades, metabolic health, and macromolecule interaction networks in endothelial cells. Some of these molecules are predicted to gain pharmacologic value in emerging vasculoprotective therapies.



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Special Issue



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