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Molecular Pathways and Potential Therapeutic Targets of Vascular Dysfunction

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Message from the Guest Editor

The vasculature is crucial in human homeostasis, and an intricate net of pathways and signaling molecules mediates its functionality. The players in this scenario are the endothelial and vascular smooth muscle cells lining the blood vessels. Disruption in the mechanisms driving these two cells' functionality leads to vascular dysfunction, which is central to the origin and development of vascular damage. Vascular dysfunction encompasses an injured endothelium characterized by an imbalance between vasoconstrictor and vasodilatory factors, microvascular dysfunction, and large artery damage by remodeling and arterial stiffening.

Vascular dysfunction leading to damaged vessels affects the quality of life and remains the leading cause of disease burden worldwide. Yet, there is a lack of information about mitigating vascular damage, and many molecular pathways need further investigation. This Special Issue welcomes manuscripts focusing on any aspect of vascular dysfunction-associated molecular pathways to enhance scientific comprehension, mitigate vascular damage, and unveil new therapeutic avenues to treat this condition.



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Special Issue



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