Special Issue

Molecular Pathways and Potential Therapeutic Targets of Vascular Dysfunction

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.

Guest Editor

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Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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