Topical Collection

Endothelial Cell Dysfunction and Multi-Organ Injury: From Molecular Mechanisms to Therapeutic Interventions

Message from the Collection Editors

Endothelial cells are lined up in all the organs of the human body. Multiple factors can cause endothelial dysfunction, including cell activation, inflammation, and death. Systemic endothelial dysfunction contributes to organ injury and death. However, the long-term effects on the endothelial lining of the blood vessels themselves have been largely ignored for a long time, even though endothelial cells (EC) seem to be the primary site of acute inflammation. In atherosclerosis, another more common disease of blood vessels, EC injury, is viewed as the first stage in the complex process of atherogenesis according to the “response to injury” paradigm. As a consequence, widespread EC dysfunction (ECD) occurs, which seems to be persistent and a major contributor to the disease process. However, the molecular mechanisms of endothelial cell dysfunction and its contribution to multiorgan injury as well as therapeutic intervention are largely unknown and urgently require further research. This Special Issue will include recent research advances on this topic.

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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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