Special Issue

Role of Endothelial Progenitor Cells in Vascular Dysfunction

Message from the Guest Editor

Cardiovascular disease (CVD) remains one of the leading causes of mortality worldwide, affecting populations in both developed and developing countries. Many forms of CVD are closely associated with endothelial dysfunction, which reduces arterial elasticity and contributes to disease progression. Endothelial progenitor cells (EPCs) are circulating components derived from the bone marrow that play a critical role in maintaining vascular integrity. Once mobilized, EPCs differentiate into mature endothelial cells and secrete various bioactive molecules and growth factors that support vasculogenesis and vascular homeostasis. Reduced number and impaired function of EPCs are commonly observed in patients with CVD and may serve as predictive biomarkers for cardiovascular events. Given their regenerative potential, EPCs have recently been investigated for use in cell-based therapies for restoring endothelial integrity and promoting neovascularization in ischemic tissues across both animal models and clinical studies.

Guest Editor

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Deadline for manuscript submissions

30 September 2026

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/si/260475

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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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