

Special Issue

Novel Insights into Endothelial Cells in Vascular Disease

Message from the Guest Editor

Endothelial cells (ECs) are now recognized as active regulators of vascular integrity, remodeling, and pathology. Beyond serving as a passive barrier, ECs integrate hemodynamic, metabolic, and inflammatory cues to coordinate vessel growth, stabilization, and repair. This Special Issue highlights emerging insights into EC biology across a spectrum of vascular diseases, including but not limited to hereditary hemorrhagic telangiectasia (HHT), arteriovenous malformations (AVMs), vascular calcification, atherosclerosis, and fibrosis. In these conditions, EC dysfunction promotes the initiation and progression of disease through abnormal signaling, lineage plasticity, or maladaptive crosstalk with neighboring cells. We will explore novel pathways and the mechanisms that underlie endothelial dysfunction. In addition, we will discuss new therapeutic strategies, including targeted molecular interventions and drug development aimed at restoring vascular disease. By integrating advances in genetics, signaling, biomechanics, and translational models, this SI aims to provide a comprehensive overview of how endothelial cells shape vascular disease and opportunities for innovative treatments.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.9 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2026).