Special Issue

Arteriogenesis and Therapeutic Neovascularization

Message from the Guest Editors

Arteriogenesis, also called collateral formation or therapeutic angiogenesis, may play an important role in restoration of blood flow both in coronary artery as well as in peripheral occlusive arterial disease. Despite many promising clinical trials on arteriogenesis and therapeutic angiogenesis, the exact molecular mechanisms involved are still not completely understood. In this inflammatory-driven vascular remodeling process, many vascular and immune cell types, cytokines and growth factors, as well as various noncoding RNAs or progenitor cells may be involved. Consequently, many questions regarding the exact molecular mechanisms involved in regulation of the arteriogenic response still need to be answered. This Special Issue of *Cells* is devoted to arteriogenesis. It will contain articles that provide a state-of-the-art view on arteriogenesis and the underlying regulation of vascular remodeling. We seek high-quality articles on all aspects of arteriogenesis, including regulatory mechanisms, state-of-the-art models, and latest (pre)clinical developments.

Guest Editors

Prof. Dr. Elisabeth Deindl

Prof. Dr. Paul Quax

Prof. Johannes Waltenberger

Prof. Thomas Schmitz-Rixen

Deadline for manuscript submissions

closed (30 November 2019)

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About the Journal

Message from the Editorial Board

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 15.5 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).