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Arteriogenesis and Therapeutic Neovascularization

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)

Message from the Guest Editors

Dear Colleagues,

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.

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Guest Editors



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Special Issue



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6-145 Jackson Hall, 321 Church St
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Prof. Dr. Cord Brakebusch

Biotech Research & Innovation
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Copenhagen, Copenhagen,
Denmark

Message from the Editorial Board

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Contact Us

Cells Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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