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Cross-Talk between Blood Vessels and Inflammatory Cells

Guest Editor:

Prof. Dr. Charles J. Malemud

Department of Medicine,
University Hospitals Cleveland
Medical Center, Case Western
Reserve University, Cleveland, OH
44106-5076, USA

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Message from the Guest Editor

Dear Colleagues,

Persuasive evidence supports the critical role that interplays between blood vessels and inflammatory cells have in driving the adaptive immune response in diverse disease processes exemplified by rheumatoid arthritis, osteoarthritis, inflammatory bowel diseases, and cardiovascular disorders. In many disease processes, the migration of leukocytes via activated venules serve as a signal for driving effector non-immune and immune cells to migrate to sites of infection, tissue injury, and cell stress. This scenario also supports an interaction between vascular endothelial cells and smooth muscle cells serving as a prerequisite for initiating an inflammatory response in muscle. This Special Issue of *Cells* focuses on the fundamental molecular and cellular underpinnings that govern the interactions between blood vessels and inflammatory cells as well as the critical role that transcription factors, interleukins and Toll-like receptors, to name only a few, play in regulating these highly complex processes.



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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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