Special Issue

Vascular Inflammation and Atherosclerosis: From Basic Mechanisms to Therapeutic Opportunities

Message from the Guest Editors

Arterial inflammation manifesting as atherosclerosis is the main pathology underlying cardiovascular disease (CVD), including myocardial infarction and ischemic stroke. As a chronic inflammatory disease of the arterial wall, atherosclerosis arises from unbalanced lipid metabolism and maladaptive inflammatory responses. Recently, did the CANTOS, COLCOT, and LoDoCo2 trials provide proof-of-concept evidence that targeting inflammation can lower CVD risk, thus setting the stage for a new paradigm of atheroprotective treatments. Balanced between atheroprotection and an impaired host response, current research efforts are focused on a better understanding of the immune mechanisms driving atheroprogression and the development of immunotherapies that precisely inhibit atheroprogression. It is therefore the aim of this Special Issue to assemble the current understanding of the cellular and molecular mechanisms involved in the initiation and progression of atherosclerosis, focusing on pathways that can be targeted for vascular protection.

Guest Editors

Dr. Yaw Asare

Institute for Stroke and Dementia Research, Klinikum der Universität München, Munich, Germany

Dr. Marios Georgakis

1. Institute for Stroke and Dementia Research, Klinikum der Universität München, Munich, Germany
2. Center for Genomic Medicine, Massachusetts General Hospital, Boston, MA, USA
3. Program in Medical and Population Genetics, Broad Institute of Harvard and MIT, Cambridge, MA, USA

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Cells
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cells@mdpi.com

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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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Dr. Alexander E. Kalyuzhny
Dental Basic Sciences, University of Minnesota, 308 Harvard St. SE, Minneapolis, MN 55455, USA

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