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Vascular Inflammation and Atherosclerosis: From Basic Mechanisms to Therapeutic Opportunities

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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Message from the Guest Editors

Dear Colleagues,

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 atheroprotection and the development of immunotherapies that precisely inhibit atheroprotection. 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.

Dr. Yaw Asare
Dr. Marios Georgakis
Guest Editors



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Special Issue



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Editors-in-Chief

Dr. Alexander E. Kalyuzhny

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

Prof. Dr. Cord Brakebusch

Biotech Research & Innovation Centre, The University of Copenhagen, Copenhagen, Denmark

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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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