

Special Issue

Endothelial Inflammation and Cardiovascular Dysfunction: Oxidative, Nitrosative and Reticulum Stress

Message from the Guest Editors

Endothelial dysfunction is a hallmark of, and the link to, several cardiovascular diseases. At the outset, in considering the mechanisms of endothelial dysfunction and activation, excessive generation of reactive oxygen (ROS) and nitrogen species (RNS) is a key protagonist. ROS and RNS overproduction by a set of enzymes from nitric oxide (NO) synthase and NADPH oxidase families, among others, are commonly involved in cellular damage and CVD development. This Research Topic postulates a primary role for endothelial cell dysfunction in inciting CVD and the underlying stress in cardiomyocytes and leukocytes to recapitulate the range of features ultimately found in cardiovascular pathologies. Even our understanding of the initiation factors that preceded CVD, drivers, such as hyperglycemia, hypertension, dyslipidemia, and SARS-CoV-2 infection, as well as their association during this process, is still limited. The aim of this Topical Collection of *Biomolecules* is to unravel and highlight fundamental pathophysiological mechanisms and evidence-based therapies in CVD.

Guest Editors

Dr. Amarylis Claudine Bonito A. Wanschel

Dr. Ana lochabel Soares Moretti

Dr. Alessandro Gonzalez Salerno

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MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biomolecules@mdpi.com

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Message from the Editorial Board

Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

Editors-in-Chief

Prof. Dr. Peter E. Nielsen

Department of Cellular and Molecular Medicine, Faculty of Health and Medical Sciences, University of Copenhagen, Blegdamsvej 3C, DK-2200 Copenhagen, Denmark

Prof. Dr. Lukasz Kurgan

Department of Computer Science, Virginia Commonwealth University, Richmond, VA 23284, USA

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