Special Issue

Molecular Advances in Ageing-Related Cardiovascular Diseases

Message from the Guest Editor

Arterial ageing represents a fundamental cause of all age-related diseases in human. To understand the process and mechanisms of arterial ageing will lead to discoveries of therapeutic agents for keeping the arteries young, in turn preventing age-related diseases. Endothelial cells are the innermost layer of the arterial wall, sense the hemodynamic and humoral microenvironment in the blood, and deliver signals to smooth muscle for modulating the vascular tone responses. Endothelial senescence represents a key characteristic of early vascular aging and contributes to the development of various arterial abnormalities associated with age, such as increased stiffness, calcification, aneurysm and atherosclerosis. The special issue aims to introduce current knowledge, frontier technologies and multidisciplinary applications on arterial ageing. Topics include:

- signaling pathways and mechanisms underlying the senescence of endothelial cells
- structural and functional abnormalities of aged artery
- cross-talk between different types of cells within the arterial wall
- strategies for preventing and reverting endothelial senescence and arterial ageing

Guest Editor

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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