

Special Issue

Molecular and Cellular Mechanisms in Cardiovascular Dysfunction and Toxicity

Message from the Guest Editors

Cardiovascular diseases are a leading cause of death worldwide. This issue focuses on signaling pathways leading to the large spectrum of cardiovascular diseases among which are heart failure, myocardial infarction, hypertension and genetic or reversible cardiomyopathies. Mechanisms of cardiac toxicity occurring as a side effect of chemotherapy and radiotherapy can also be highlighted. This Special Issue deals with abnormalities in cardiomyocyte contraction and relaxation including calcium handling, mitochondria and energy homeostasis, oxidative stress and cardiac cells survival and apoptosis, extracellular matrix, cell micro-environment and cell-cell crosstalk. Studies on alteration of hormonal and neurohormonal signaling including adrenergic system, renin-angiotensin-aldosterone system alongside with sex hormones leading to cardiac dysfunction or toxicity will be included. The Special Issue aims to provide a better understanding of molecular and cellular mechanisms leading to cardiac damage, that are still not well understood. Furthermore, our aim is to gain a general overview of known and new therapeutic approaches and drug targets in the field.

Guest Editors

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About the Journal

Message from the Editorial Board

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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