

Special Issue

Molecular Mechanisms of Cardiovascular Dysfunction and Implications in Anti-cancer Drug-Induced Cardiotoxicity

Message from the Guest Editors

Cardiovascular disease (CVD) remains the leading cause of morbidity and mortality in the 21st century. An emerging concern in recent years has been the contribution that anti-cancer drug-induced cardiotoxicity adds to the global burden of CVD. A variety of anti-cancer treatments can cause damage to the heart, resulting in tissue remodelling, contractile dysfunction and, in extreme cases, heart failure. So far, the molecular mechanisms underlying these drug-induced effects in both contractile and non-contractile cells of the heart remain unclear. Some of the key mechanisms that could be affected by anti-cancer agents include calcium signalling, pro-inflammatory signalling, mitochondrial function and cell metabolism. This Special Issue of *IJMS* offers a platform for high-quality publications exploring novel molecular mechanisms underlying anti-cancer drug-induced cardiotoxicity across different cell types of the heart. This is with a view to highlighting cellular targets that could be important for safety pharmacology in drug design going forward.

Guest Editors

Dr. Susan Currie

Strathclyde Institute of Pharmacy & Biomedical Sciences, University of Strathclyde, Glasgow, UK

Dr. Margaret Rose Cunningham

Department of Physiology and Pharmacology, Strathclyde Institute for Biomedical Sciences, University of Strathclyde, 27 Taylor Street, Glasgow G4 0NR, Scotland, UK

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

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

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