



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

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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.





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Message from the Editor-in-Chief

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