



In Vitro Models of Cardiovascular Diseases and Toxicity

Guest Editor:

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Message from the Guest Editor

Cardiovascular diseases are the leading cause of morbidity and mortality and a substantial economic burden on the healthcare system globally. Several factors participate in their development: some more established and studied (smoking, diabetes, hypercholesterolemia, genetics), others external, come to the fore more recently (pollution, chemical compounds, etc.). Cardiovascular diseases and evaluation of toxicity share a series of mechanisms at the cell level, presenting a quite level of complexity to study in humans or animals.

The use of in vitro systems could help obtain specific information on cellular responses, favoring the study of the pathophysiology of diseases as well as evaluating the effects on the cell biology of several chemical compounds. In particular, in vitro models, which take methodologies at the interface of different specialties (e.g., biology, genetics, bioengineering, bioinformatics, physics), could provide a more reliable and close-to-reality response to researchers.





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Message from the Editor-in-Chief

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