

## Special Issue

# Reprogramming in Cardiac Tissue

### Message from the Guest Editor

Cardiovascular diseases are still a leading cause of mortality in developed countries with highly limited therapy options. Thereby, the very limited regeneration potential of collapsed cardiomyocytes is a major treatment obstacle. Novel approaches toward personalized regenerative therapy and drug development have gained increasing importance. In particular, direct somatic cell reprogramming towards cardiovascular cells while avoiding a potentially teratogenic pluripotency state is expected to gain great importance. Moreover, in vitro testing utilizing organoid cultures derived from patient-specific programmed cardiovascular cells will likely enable personalized drug testing in precision medicine.

This Special Issue will broadly address topics from the basic science of somatic and stem cell reprogramming to their applications in cardiovascular regeneration and disease treatment, as well as novel pathways toward cardiovascular in vitro disease modeling. We accept original studies, reviews and technical reports in the field of cardiovascular cell programming, disease modeling and cell-based therapy written by scientists active in the field.

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### Guest Editor

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### Deadline for manuscript submissions

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## International Journal of Molecular Sciences

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### Message from the Editor-in-Chief

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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### Editor-in-Chief

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