Special Issue

Advances in Zebrafish Cardiac Disease Models

Message from the Guest Editor

Heart diseases such as hypertrophy and heart attack represent the most frequent causes of death in humans. Several research groups worldwide are currently studying the cellular, genetic and molecular mechanisms underlying the onset of cardiovascular diseases to find effective and targeted therapies for individual patients. In this context, studies in alternative animal models, IPSC and organoids can be conducted to investigate repair strategies for human heart tissues. Furthermore, such studies can teach us which repair mechanisms or drugs are potentially effective. Even stochastic mechanisms that underlie the phenotypic differentiation/regeneration of cardiomyocytes could be approached by spatially resolved gene expression profiling and lineage analysis. An elective model used in the last 20 years for studying cell biology and cardiac development/repair and disease is the zebrafish (Brachidanio rerio). This Special Issue aims to expose new and emergent research in the field of cardiac regeneration and the control of pathologies by using alternative models such as the zebrafish.

Guest Editor

Dr. Nicla Romano

Dipartimento di Scienze Ecologiche e Biologiche, Università della Tuscia, 01100 Viterbo, Italy

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Cells
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cells@mdpi.com

mdpi.com/journal/cells

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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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