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Advances in Zebrafish Cardiac Disease Models

Guest Editor:

Dr. Nicla Romano

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

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Message from the Guest Editor

Dear Colleagues,

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.

Dr. Nicla Romano

Guest Editor



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Special Issue



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Cells Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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