Special Issue

Cell Programming for Cardiovascular Disease Modeling and Therapy

Message from the Guest Editor

Cardiovascular diseases still represent a leading cause of mortality in the developed countries with highly limited therapy options. A main reason is the very limited regeneration potential of collapsed cardiomyocytes – therefore novel approaches toward personalized regenerative therapy and drug development are of major importance. In recent years, forward programming of iPSCs as well as Direct Reprogramming of somatic cells and adult stem cells have introduced entirely novel options to circumvent obstacles commonly encountered in regenerative medicine by utilizing autologous cells as the source of treatment. This has greatly benefitted from efforts to identify and optimize master regulator combinations to redefine cellular fates. Multiple research groups have shown direct somatic cell conversion towards cardiovascular cells, thereby avoiding a pluripotent intermediate state. The current Special Issue will 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.

Guest Editor

Prof. Dr. Robert David

1. University Medical Center Rostock, Clinic for Cardiac Surgery, University of Rostock, Rostock, Germany
2. Dept. Life, Light & Matter, Interdisc. Faculty, University of Rostock, Rostock, Germany

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International Journal of Molecular Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijms@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Maurizio Battino
Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

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