Special Issue

Recent Progress on Fibrosis and Cardiac Dysfunction

Message from the Guest Editors

Cardiac fibrosis involves the thickening and stiffening of heart tissue due to excessive accumulation of extracellular matrix (ECM) components. This process disrupts the normal architecture and function of the myocardium, leading to cardiac dysfunction. Various factors, such as ischemic heart disease, hypertension, atrial fibrillation, and inflammatory diseases, can trigger the initial injury. In response, cardiac fibroblasts become activated and transform into myofibroblasts, producing excess ECM proteins. The accumulation of the ECM results in myocardial stiffening, disrupting the heart's normal electrical conduction and mechanical function. Cardiac fibrosis is a critical area of research due to its significant impact on heart function and overall cardiovascular health. This Special Issue aims to highlight recent findings on how preventing fibrosis can help preserve cardiac function at both cellular and organismal levels. Additionally, we welcome contributions that explore innovative technologies and methodologies that could pave the way for new therapeutic approaches.

Guest Editors

Dr. Tabito Kino

Department of Medical Science and Cardio-Renal Medicine, Yokohama City University Graduate School of Medicine, Fukuura 3-9, Kanazawa-ku, Yokohama, Japan

Dr. Tomoaki Ishigami

Department of Medical Science and Cardio-Renal Medicine, Yokohama City University Graduate School of Medicine, Fukuura 3-9, Kanazawa-ku, Yokohama, Japan

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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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Message from the Editorial Board

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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Dr. Alexander E. Kalyuzhny
Dental Basic Sciences, University of Minnesota, 308 Harvard St. SE, Minneapolis, MN 55455, USA

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