

Special Issue

Signalling Mechanisms Regulating Cardiac Fibroblast Function

Message from the Guest Editors

Cardiac fibroblasts represent a major cell population in the heart, playing essential roles in extracellular matrix (ECM) remodeling, intercellular communication, and tissue repair. In healthy myocardium, fibroblasts maintain homeostasis through balanced ECM turnover and paracrine signaling. However, under stress or injury, these cells undergo activation into myofibroblasts, leading to excessive ECM deposition, fibrosis, and impaired cardiac function. Understanding the signaling pathways that govern fibroblast behavior is therefore essential for uncovering mechanisms of both physiological adaptation and pathological remodeling.

This SI will focus on the signaling mechanisms that control cardiac fibroblast activation, communication, and function. We particularly welcome contributions that dissect intracellular pathways (e.g., TGF- β /SMAD, MAPK, PI3K-AKT, Hippo-YAP, Wnt) and their integration with extracellular and mechanical cues. Manuscripts highlighting fibroblast heterogeneity, single-cell and spatial insights, cross-talk with cardiomyocytes, endothelial cells, and immune cells, as well as novel therapeutic strategies to target fibroblast signaling, are strongly encouraged.

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About the Journal

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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