

Special Issue

Breakthroughs in Cardiac Tissue Remodeling: From Mechanisms to Therapeutics

Message from the Guest Editor

Cardiac tissue remodeling plays a pivotal role in the progression of various cardiovascular diseases, including myocardial infarction, heart failure, and cardiomyopathies. Understanding the mechanisms of adverse remodeling and developing strategies to mitigate its effects are critical for improving patient outcomes. Recent research has provided significant insights into the molecular and cellular processes underlying cardiac remodeling, including the roles of inflammation, fibrosis, and neurohormonal activation. Additionally, emerging therapies aim to promote favorable remodeling and restore cardiac function. This Special Issue will highlight advances in several key areas: the molecular and cellular mechanisms driving adverse cardiac remodeling, novel biomarkers for early detection and monitoring, therapeutic interventions targeting remodeling pathways, the impact of cardiotoxicity on cardiac structure and function, and the development of innovative models to study cardiac dysfunction and regeneration. We invite contributions that explore these themes, offering new perspectives on the pathophysiology of cardiac remodeling and potential therapeutic approaches.

Guest Editor

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