

Special Issue

Molecular Research in Cardiovascular Disease, 3rd Edition

Message from the Guest Editors

Cardiovascular diseases (CVD) are the leading cause of death worldwide. Atherosclerosis, the dominant driver of CVD, is characterized by a process of chronic inflammation and endothelial dysfunction associated with vessel wall accumulation of oxidized low-density lipoproteins. In advanced stages, endothelial lesions promote atherosclerotic plaque instability, acute events, and ultimately, plaque rupture. The molecular and cellular mechanisms underlying various cardiovascular diseases are not completely understood. However, several signaling pathways that induce vascular remodeling are essential in both coronary heart disease and in related pathologies, such as pulmonary artery hypertension, suggesting the existence of common mechanisms in these maladies. With this Special Issue, we aim to present representative data obtained at the interface between basic science and clinical research on the molecular mechanisms of heart and vascular diseases and the novel biomarkers and molecules that can become specific targets for future therapeutic interventions. In addition, we hope that the papers presented will inspire novel innovative investigations at the bench to bedside intersection.

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