



Non Coding RNAs in the Cardiovascular System

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Message from the Guest Editors

JCDD is launching a Special Issue on “Non-Coding RNAs in the Cardiovascular System”. Over the last decades, we have witnessed a tremendous effort to understand the gene regulatory mechanisms underlying cardiovascular development and hence disease. Recently, a novel layer of complexity has emerged given that the vast majority of the genome is transcribed into non-coding RNAs and much evidence demonstrated a key regulatory role for these molecules. Short and long non-coding RNAs are differentially expressed during embryogenesis as well as in adulthood where they can represent novel biomarkers for distinct pathological conditions, including therein the cardiovascular system. The functional contribution of these ncRNAs, particularly microRNAs and lncRNAs, has emerged in cardiovascular development and disease. This Special Issue aims to cover studies on the functional role of non-coding RNAs in the cardiovascular system, spanning from the early stages of development to the adult heart, as well as in congenital and acquired cardiovascular physiopathological conditions.

