Special Issue

Transcriptomics and Non-coding RNAs in Heart Failure

Message from the Guest Editor

Heart failure is a shared chronic phase of cardiac functional impairment secondary to many etiologies and considered a serious global health challenge affecting at least 26 million people worldwide. There is a need to develop new strategies for the management of this syndrome. In this sense, alterations in the gene expression of different pathways that can lead to heart failure are being studied. Gene expression requires precise regulation through selective and bidirectional transport between the nucleus and the cytoplasm, including membrane proteins, enzymes, ribosomal subunits, and different types of RNAs. Noncoding RNAs are emerging as potent and multifunctional regulators in all biological processes, and step by step, studies are unveiling associations between aberrant noncoding RNA expression and human diseases. Better known are miRNAs, emerging evidence has demonstrated that abnormal expression is associated with the pathological processes of cardiovascular diseases, although their functional roles have not been completely understood. This can be contrasted to the lack of information around the expression of other sRNA as snoRNAs or scaRNAs, especially at the cardiac level.

Guest Editor

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