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Short and long non coding RNA therapeutics for cardiac remodeling

Noncoding RNAs such as miRNAs or long noncoding RNAs (lncRNAs) regulate large portions of the genome. Recently, these targets have been used to be modulated in a number of diseases. I will discuss latest findings of our group about the use of noncoding RNA therapeutics in cell culture, small and large animal models on their way to clinical testings to combat heart failure. In addition, I will show first exciting results about the mechanistic roles of lncRNAs in heart failure as well as their therapeutic manipulation.

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