

MicroRNAs orchestra the cellular processes driving failure of the heart

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Propositions

Belonging to the thesis

MicroRNAs Orchestrate the Cellular Processes Driving Failure of the Heart

By Robin Verjans
23 February 2018

1. Molecular hallmarks of cardiac aging also drive the progression of HF, implying that HF is an accelerated state of myocardial aging. (This thesis)
2. MiRNAs are pleiotropic regulators of different cellular processes underlying cardiac disease. (This thesis)
3. Downregulation of the microRNA-221/222 family in the pressure overloaded heart unleashes fibrotic signaling. (This thesis)
4. MiR-151 represses hypertrophy as well as mitochondrial oxidative capacity of cardiomyocytes, via downregulation of PGC-1 α levels. (This thesis)
5. MiR-125a enhances cardiomyocyte growth and increases cardiac contractility through controlling of cardiomyocyte cell cycle activity. (This thesis)
6. Although the end result in means of a successful clinically utilised therapy lies beyond the horizon, we as basic scientists should strive for expansion of the scientific body of knowledge to increase the chances of developing life-saving therapeutic approaches. (This thesis)
7. You should not believe a thing only because you like to believe it. We call that 'Dax's Rake'. (Neal Stephenson)
8. The end of science is not to prove a theory, but to improve mankind. (Manly Hall)
9. The fact that we live at the bottom of a deep gravity well, on the surface of a gas covered planet going around a nuclear fireball 90 million miles away and think this to be normal is obviously some indication of how skewed our perspective tends to be. (Douglas Adams)
10. Chaos isn't a pit. Chaos is a ladder. (Petyr Baelish)