

Targeting the heart

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Targeting the heart:

Extracellular vesicles and beyond

Propositions

- 1. The capacity of EVs to deliver both natural and synthetic ncRNAs including lncRNAs presents a competitive advantage of EVs over other delivery systems. (This thesis)
- 2. EVs can be loaded with different IncRNA splice variants and successfully deliver them to different cardiac cell types. (This thesis)
- 3. Once systemically injected, EVs do not naturally accumulate in the heart, limiting their use for non-invasive cardiac applications. (This thesis)
- 4. Remote targeting of EVs is a feasible non-invasive approach to increase EV retention in the heart. (This thesis)
- 5. "Research is to see what everybody else has seen, and to think what nobody else has thought." (Albert Szent-Györgyi)
- 6. "Bad times have a scientific value. These are occasions a good learner would not miss." (Ralph Waldo Emerson)
- 7. "The scientist is not a person who gives the right answers, he's one who asks the right questions." (Claude Levi-Strauss)
- 8. "Sê todo em cada coisa. Põe quanto és/ No mínimo que fazes." (3-4) in "Para Ser Grande, Sê Inteiro" from Ricardo Reis (Fernando Pessoa); a poem about giving your best in everything that you do