

# Extracellular vesicles as platforms for therapeutic microRNA delivery

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# **Extracellular Vesicles as Platforms for Therapeutic microRNA delivery**

## *Propositions*

1. Using bioengineering tools, EVs can be modulated in numerous ways in order to alter their cargo and surface. (This thesis)
2. Pathological contexts that may benefit the most from the development of EV-miRNA-based therapies include situations where there are hard-to-reach and poorly regenerative injured organs or tissues, such as cardiovascular or neurological diseases. (This thesis)
3. Life does not exist in a vacuum; therefore, life is never alone. (This thesis)
4. The dual use of EVs as drug delivery agents as well as therapeutic entities in their own right has become a new paradigm in EV research (This thesis)
5. “All we have to decide is what to do with the time is given us.” (J.R.R. Tolkien)
6. “Keep your dreams, you never know when you might need them.” (Carlos Ruiz Zafón)
7. “An expert is a person who has made all the mistakes that can be made in a very narrow field.” (Niels Bohr)
8. “A thinker sees his own actions as experiments and questions--as attempts to find out something. Success and failure are for him answers above all.” (Friedrich Nietzsche)
9. “What one generation finds ridiculous, the next accepts; and the third shudders when it looks back on what the first did.” (Peter Singer)