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## Development of adenoviral vectors armed with TNF-related therapeutic proteins for gene therapy

Diaz Arguello, Olivia

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# Propositions

Associated with this PhD thesis

## Development of adenoviral vectors armed with TNF-related therapeutic proteins for gene therapy

By Olivia Adaly Diaz Arguello

1. The delivery of apoptosis-inducing ligands from the TNF family via adenoviral vectors may benefit the conveyance of the ligands to the targeted tissue (this thesis).
2. Purification is a key step in the production of adenoviral vector-based therapeutics because low-quality purification can affect the patients' safety.
3. The CRISPR/Cas9 technology is a tool that can help us to understand the genetic driving forces of cancer by genome editing (this thesis).
4. Soluble TRAIL regains its full apoptotic activity by being part of a fusion protein (this thesis).
5. Adenoviral vectors can help overcome the issue elicited by the short half-life of therapeutic ligands by continuous recombinant protein production (this thesis).
6. Adenoviral vectors armed with RANKL\_Q236D can be locally delivered into a specific tissue, resulting in continuous protein production. Additionally, adenovirally-expressed RANKL\_Q236D has reduced binding towards OPG. All these characteristics make it a promising tool to treat fibrosis (this thesis).
7. "Education never ends. It is a series of lessons, with the greatest for the last."—Sir Arthur Conan Doyle.
8. "Science, my lad, is made up of mistakes, but they are mistakes which it is useful to make, because they lead little by little to the truth."—Jules Vern.

9. "But remember... that a kind act can sometimes be as powerful as a sword."—  
R. Riordan.