Propositions belonging to the thesis

The Development of Novel Therapeutics for the Induction of Organ Repair through Stem Cell Mobilization and Immunomodulation

- 1. The combination of plerixafor and low-dose tacrolimus is able to induce long-term kidney allograft acceptance through stem cell mobilization and host repopulation (this thesis).
- 2. Combination treatment with plerixafor and low-dose tacrolimus prolongs skin allograft survival and induces in-situ skin repair (this thesis).
- 3. Diabetic and non-diabetic wound healing is significantly accelerated by a combination treatment of plerixafor and low-dose tacrolimus (this thesis).
- 4. The combination of plerixafor and G-CSF can rescue swine from D-galactosamine induced acute liver failure (this thesis).
- 5. MRG-001, a novel fixed-dose drug combination, is safe and well tolerated in a population of healthy subjects and has the potential to be used as a treatment for a variety of diseases caused by tissue injury and inflammation (this thesis).
- 6. Kidney xenotransplantation will be a clinical reality in the next decade. (Montgomery, NEJM 2022, https://pubmed.ncbi.nlm.nih.gov/35584156/)
- 7. Johns Hopkins is a singular institution where the realms of academia, healthcare, and research converge and where the pursuit of knowledge is an art, patient care is a science, and innovation is a way of life, making it a truly exceptional institution.
- 8. "In America, anyone can become anything. It's the land of opportunity." Warren Buffett
- 9. Let girls and women in Afghanistan learn! https://www.unesco.org/en/articles/let-girls-and-women-afghanistan-learn
- 10. Why 90% of clinical drug development fails and how to improve it? (Sun, Acta Pharm Sin B. 2022, https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9293739/)
- 11. "I hated every minute of training, but I said....Don't quit, suffer now and live the rest of your life as a champion." (Muhammad Ali)

A.R. Ahmadi