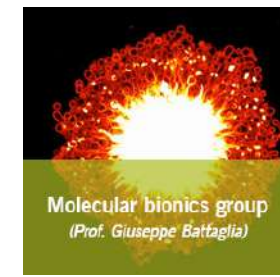
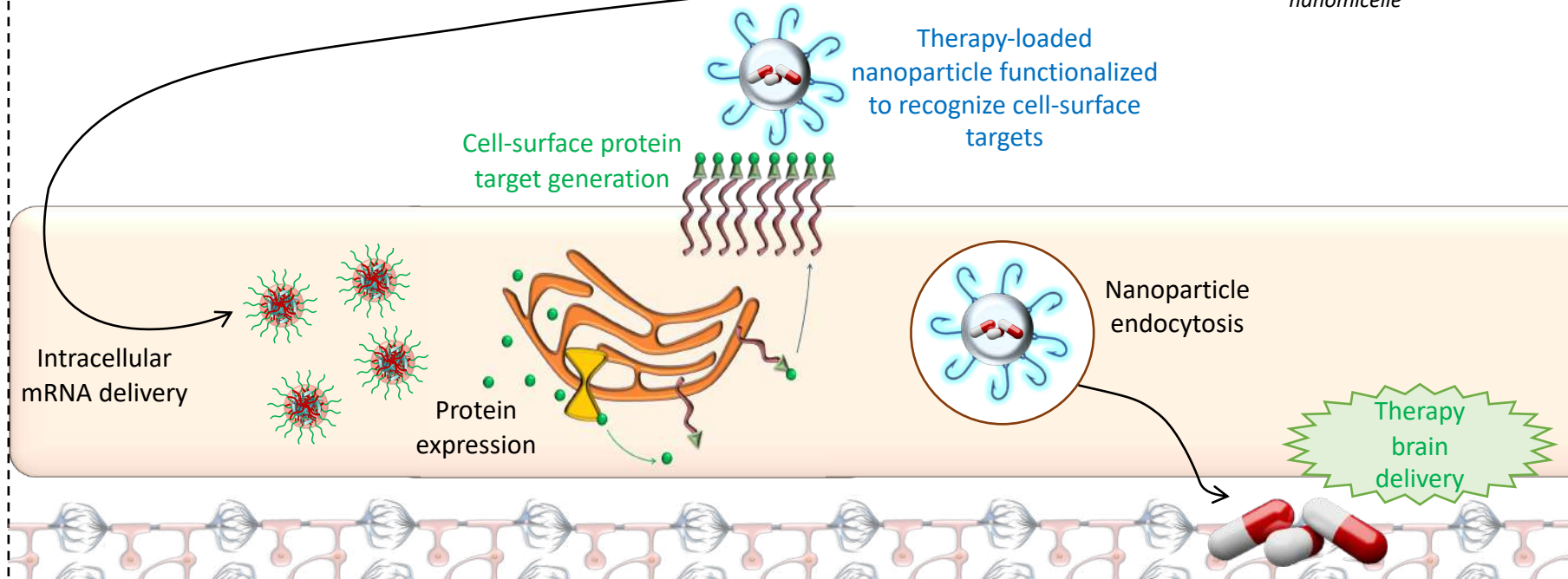
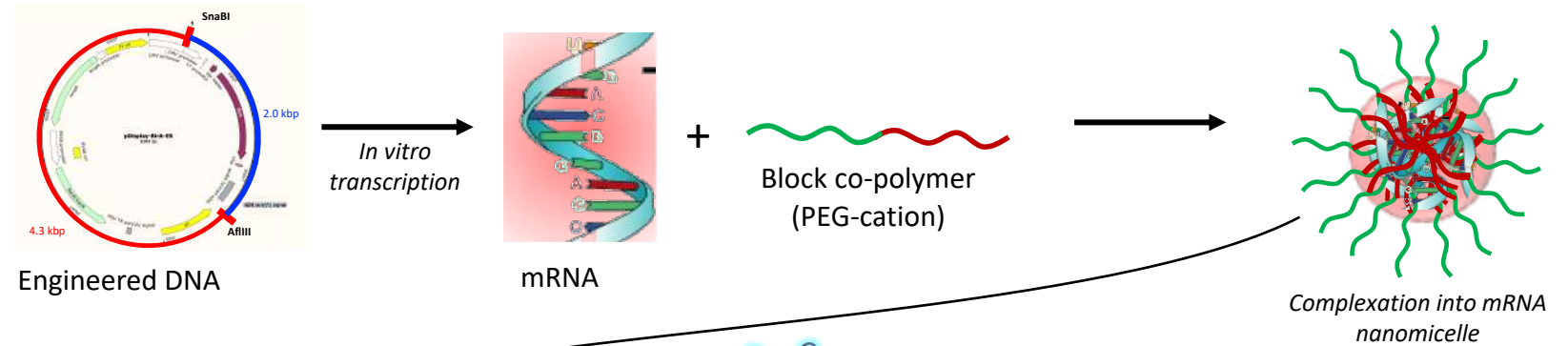


mRNA Delivery by Polymeric Nano-Vesicles to Express Brain-Specific Protein Targets



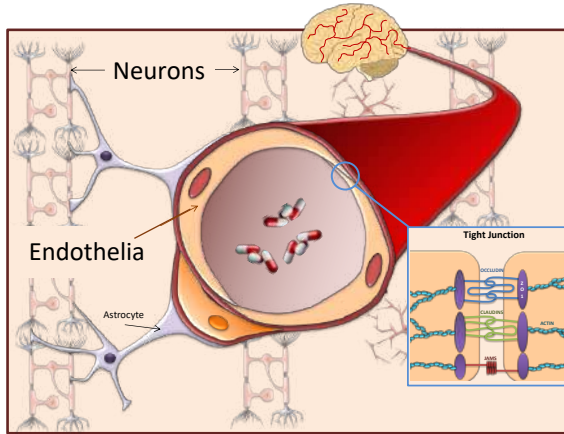
Supervisor: Dr. Daniel Gonzalez-Carter

- The Methods:**
- Intracellular mRNA delivery
 - Nanoparticle functionalization



The Problem: the blood-brain barrier

Impermeable brain endothelial cells prevent therapies from entering the brain



The Solution: create artificial targets

Express engineered cell-surface targets to bind therapy-loaded nanoparticles

