



Marrissa Izykowicz

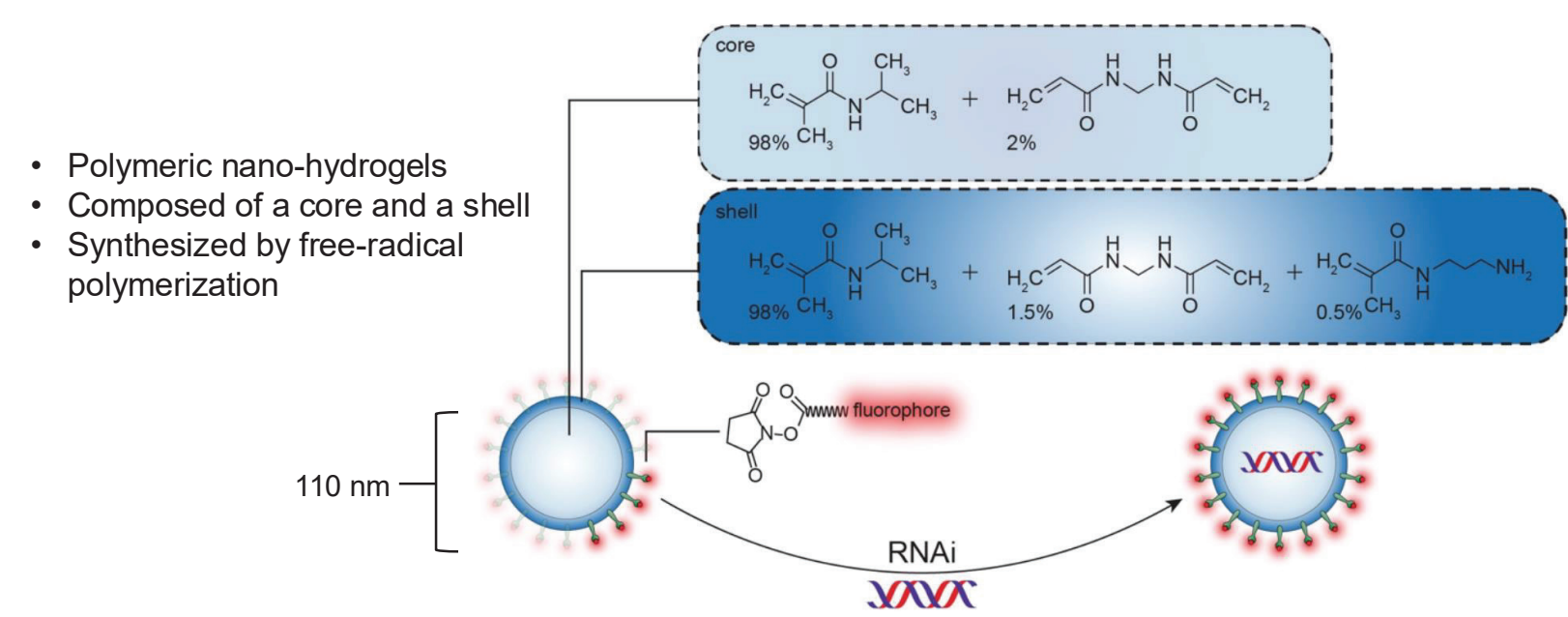
Roche Award
Ph.D. Candidate, Chemistry and Biochemistry
Second Year ARCS Scholar



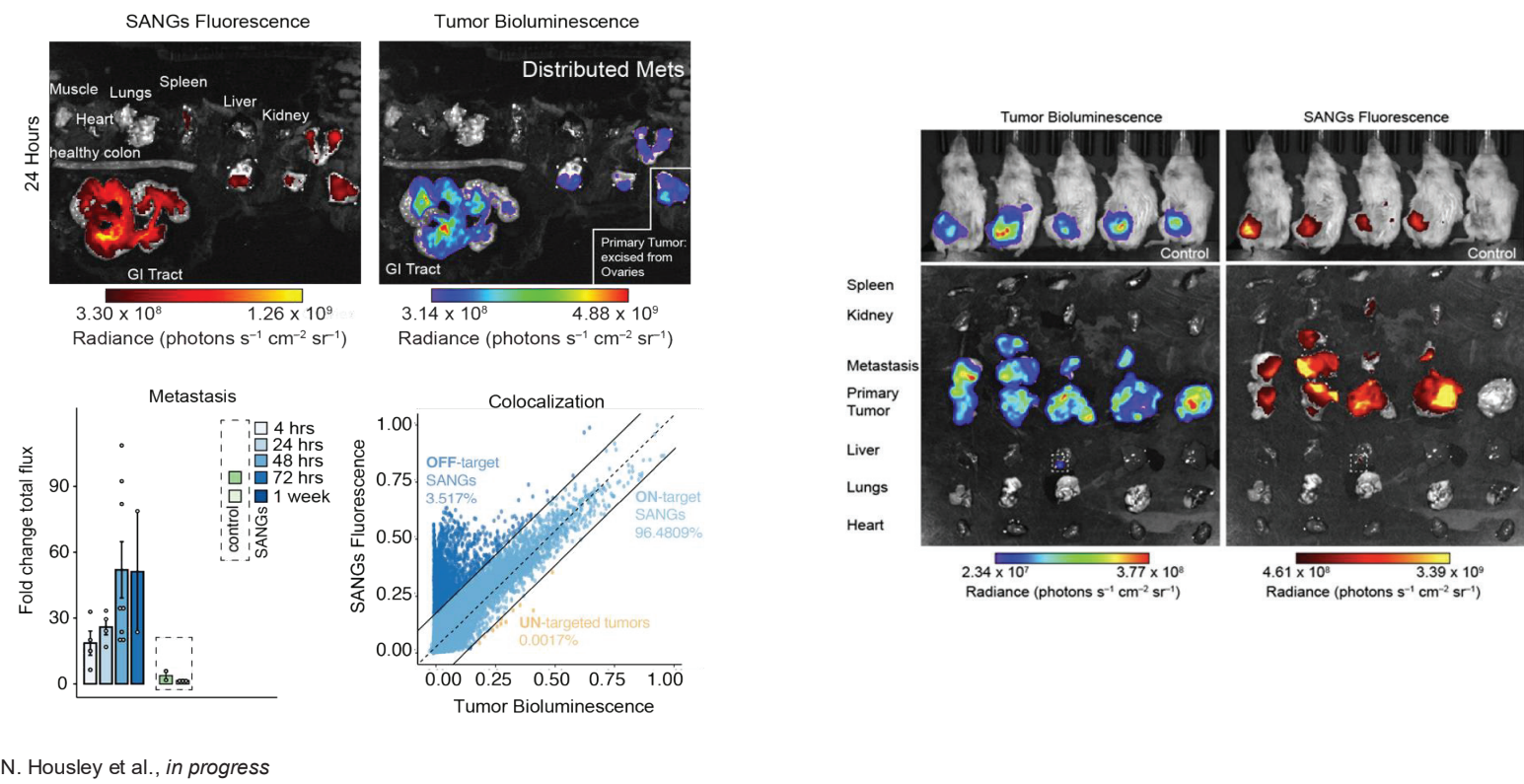
Investigation of Self-Agglomerating Nanohydrogels (SANGs) as a Drug Delivery System

I investigate the potential of a novel nanoparticle platform to deliver various therapeutic cargoes to metastatic cancers. I am also characterizing the intracellular trafficking of these nanoparticles to better understand cargo release and therapeutic efficacy.

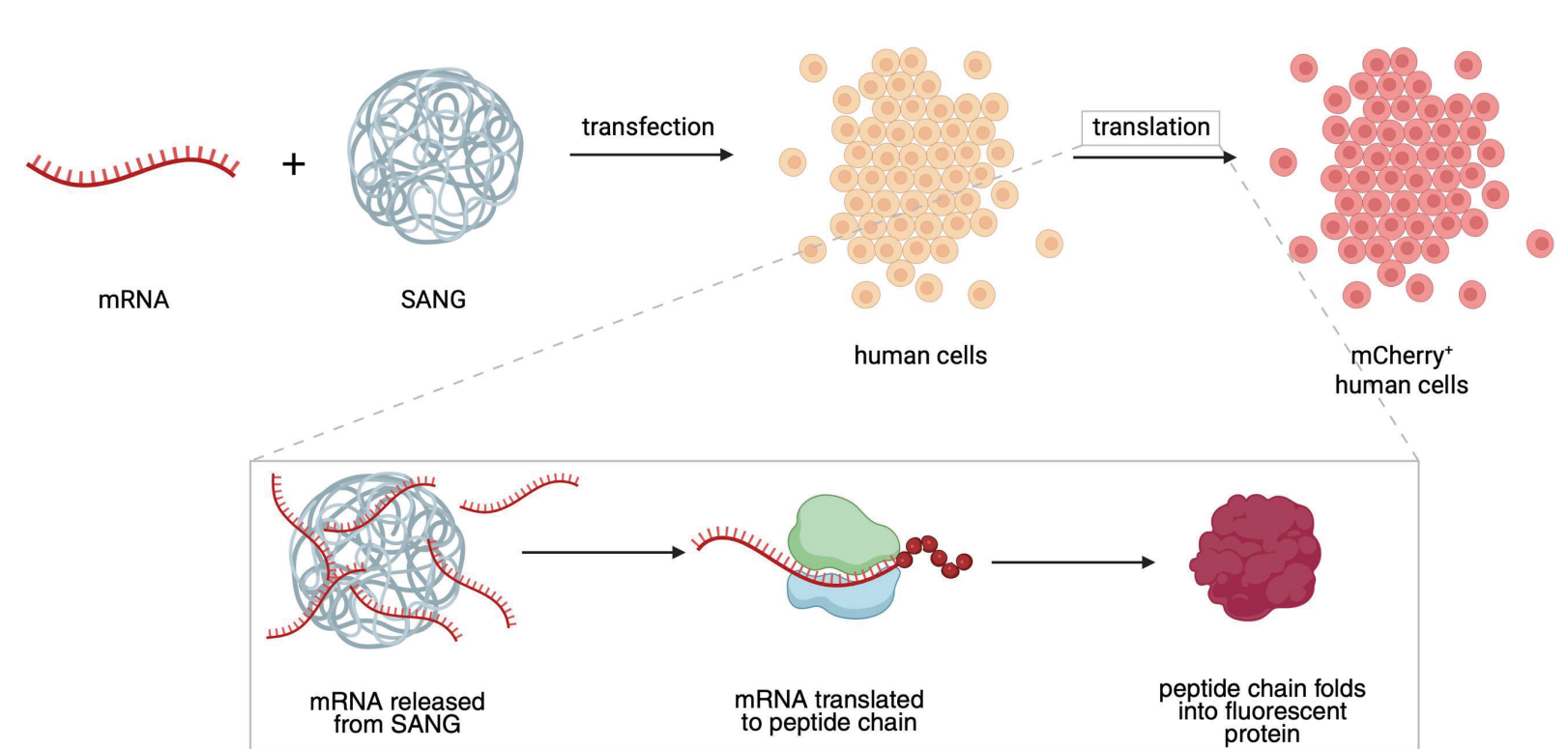
What are SANGs?



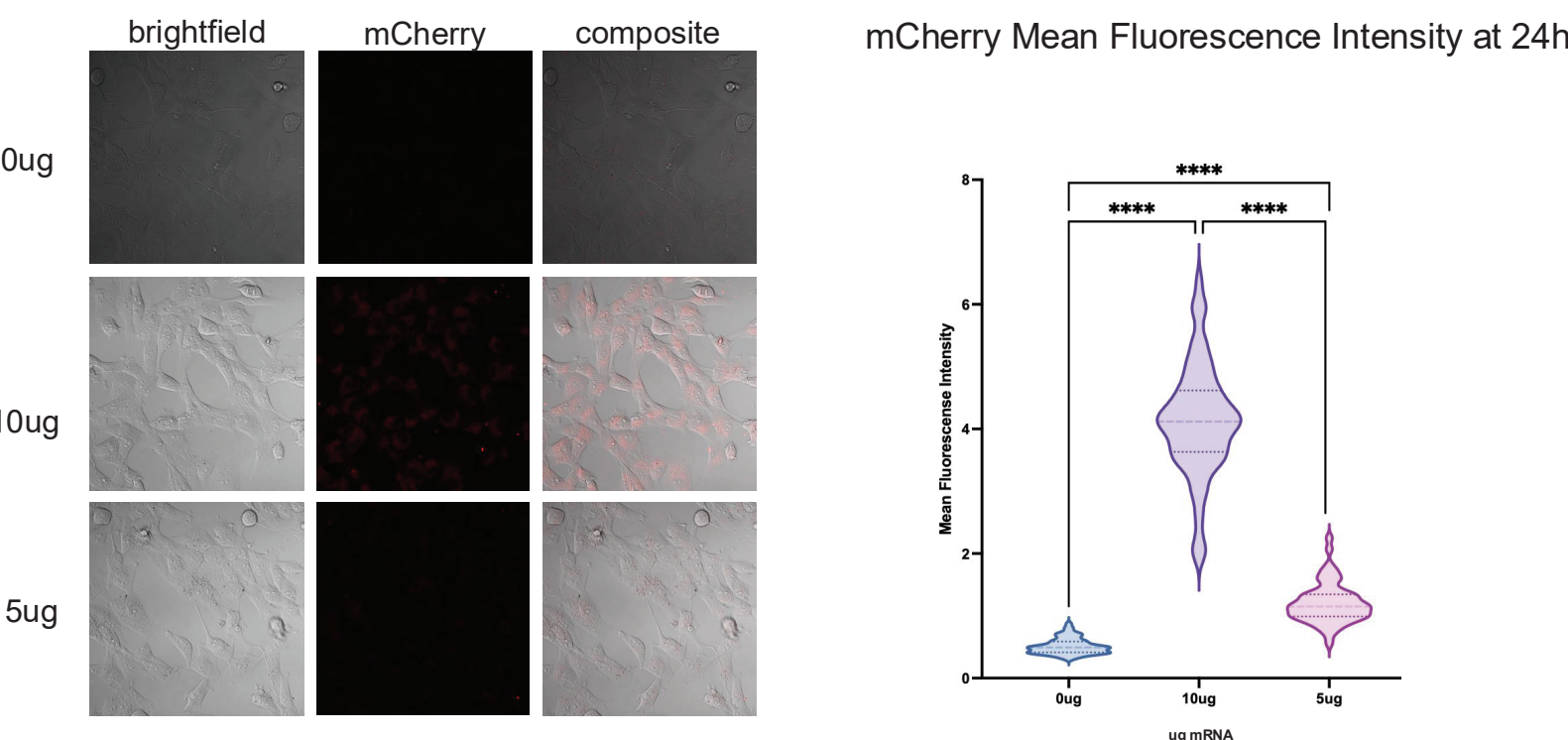
Metastasis Targeting and Primary Tumor Localization



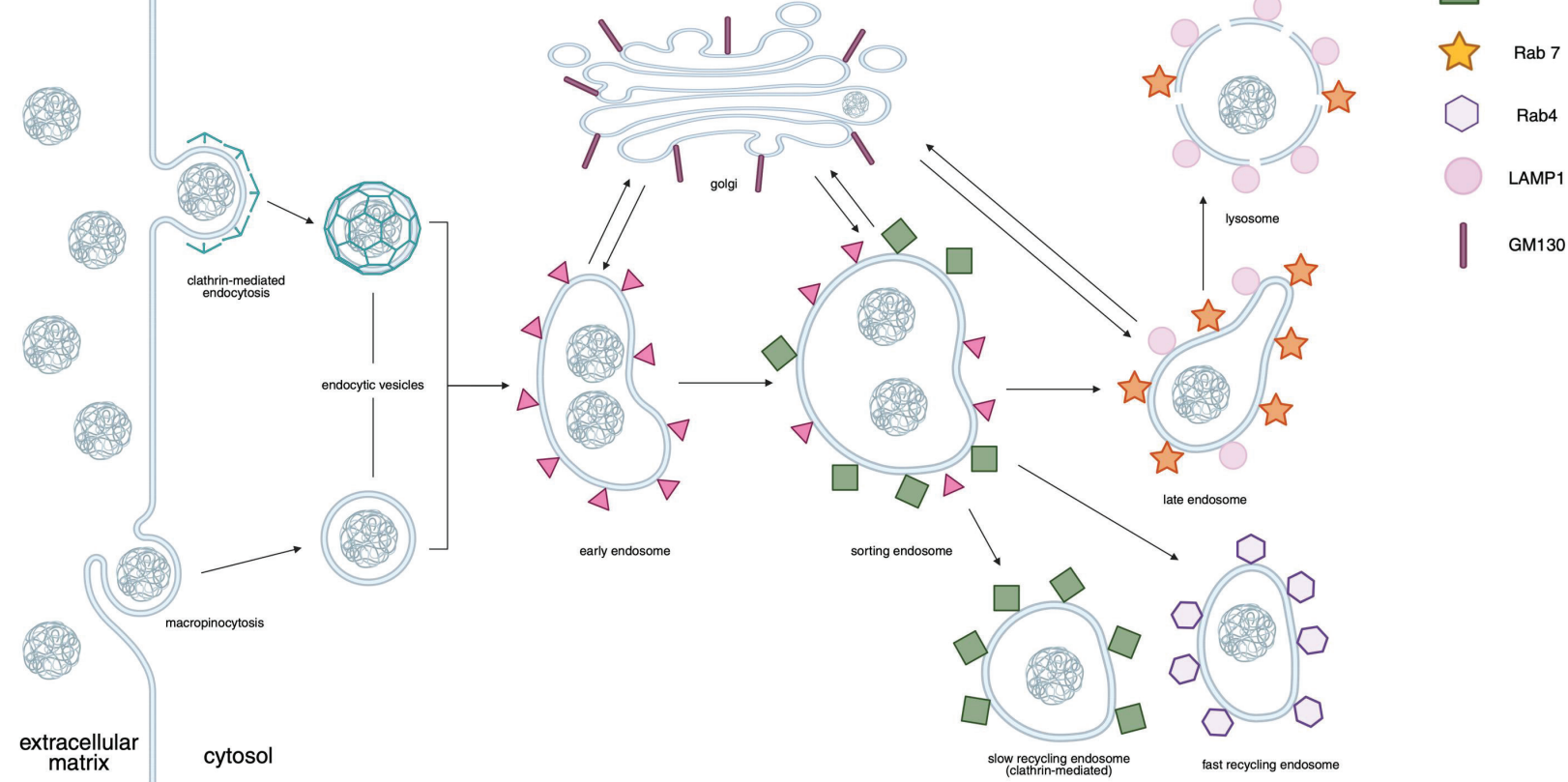
mRNA Delivery – Fluorescent Protein mCherry



mRNA Delivery – Fluorescent Protein mCherry



Intracellular Trafficking Map



Labeling Intracellular Structures

