

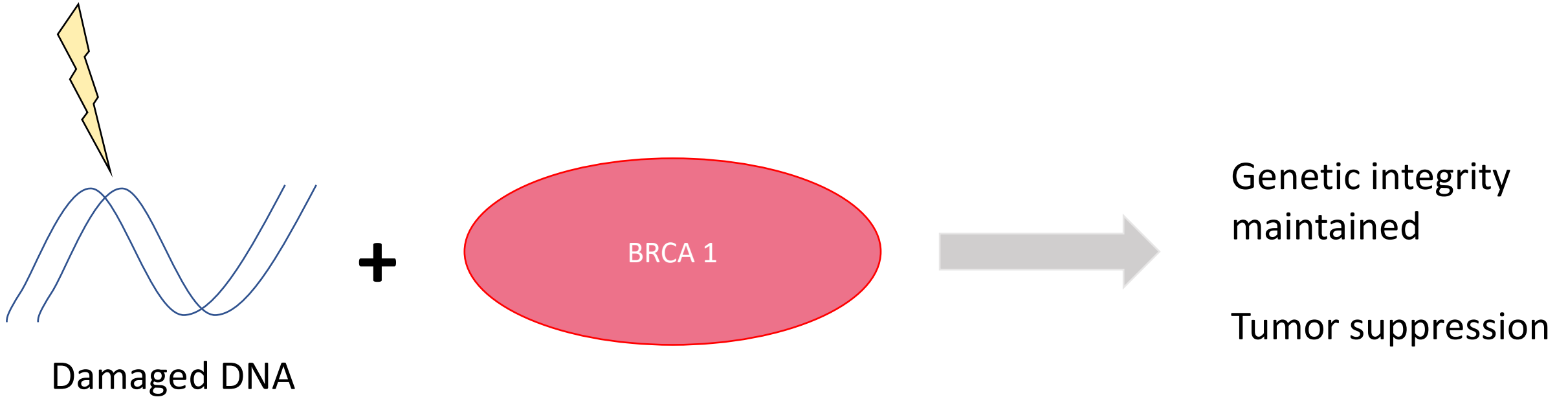
Effects of BRCA1 Length on DNA Repair

By Jaehyun Lee

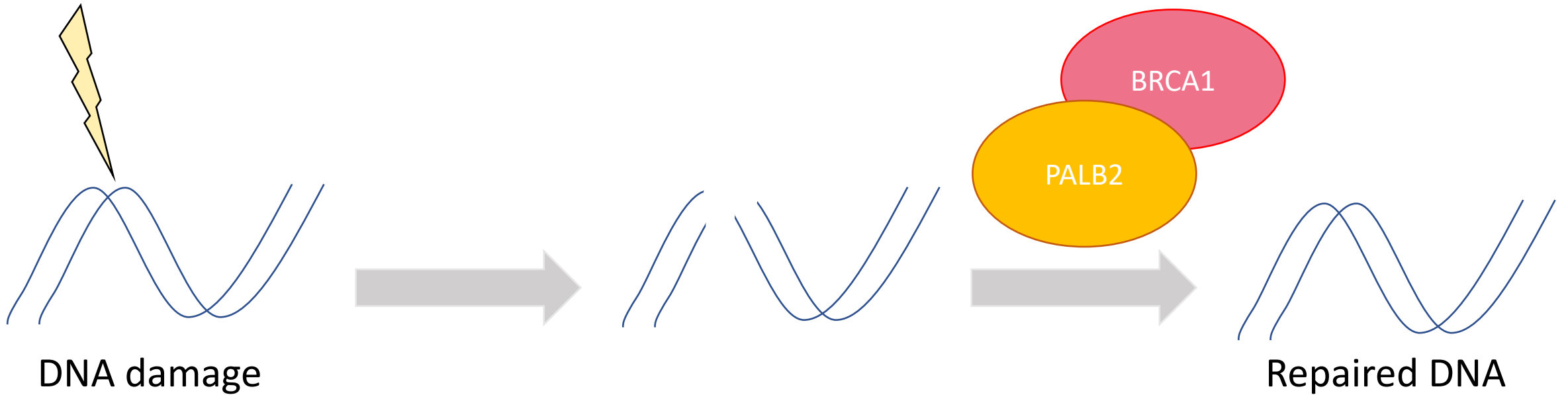
Advisor: Dr. Mikaela Stewart



BRCA1 is a Tumor Suppressor

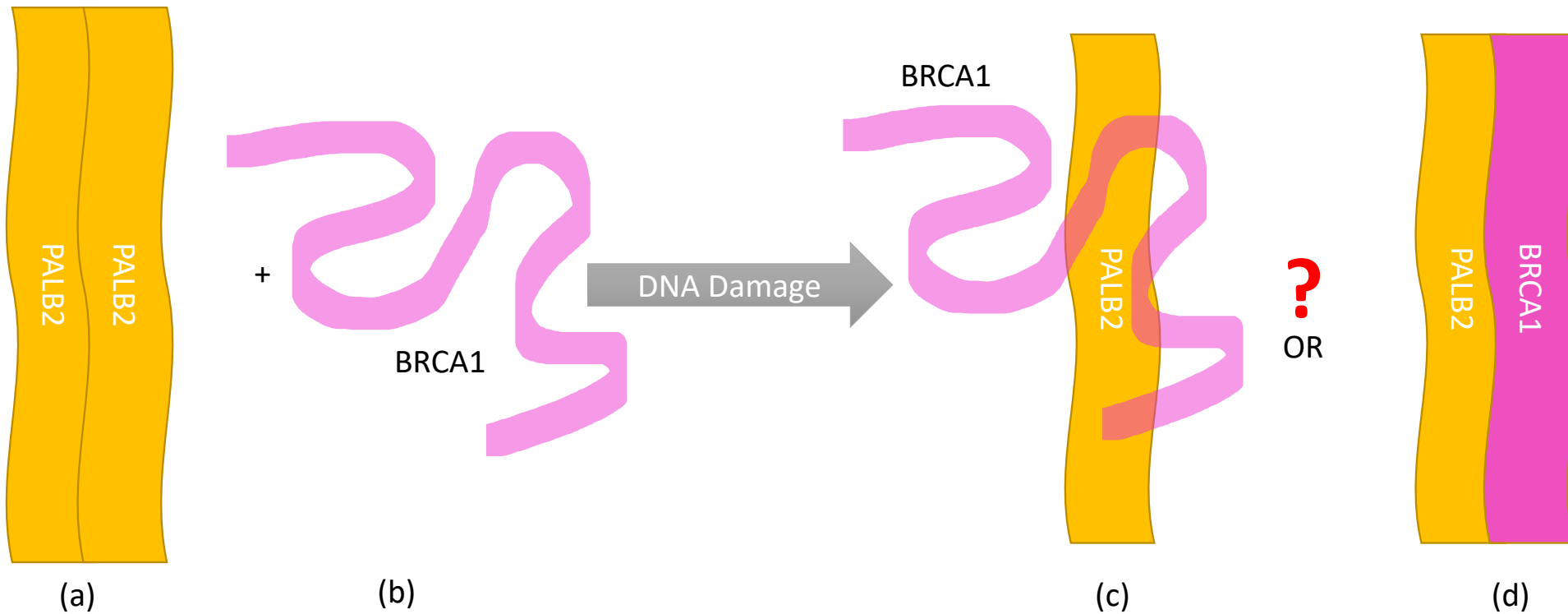


BRCA1 Works with PALB2 in DNA Damage



Objective

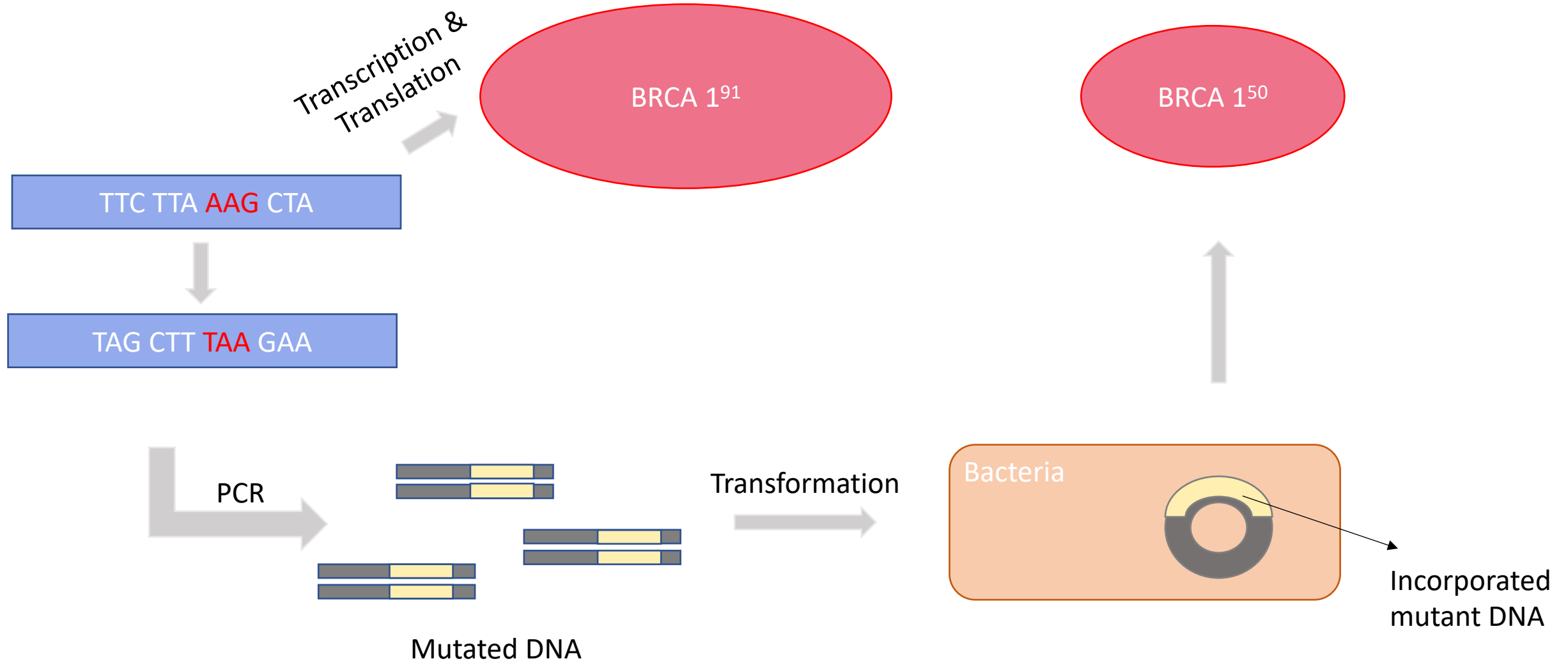
Investigate the secondary structure of BRCA1 upon binding PALB2



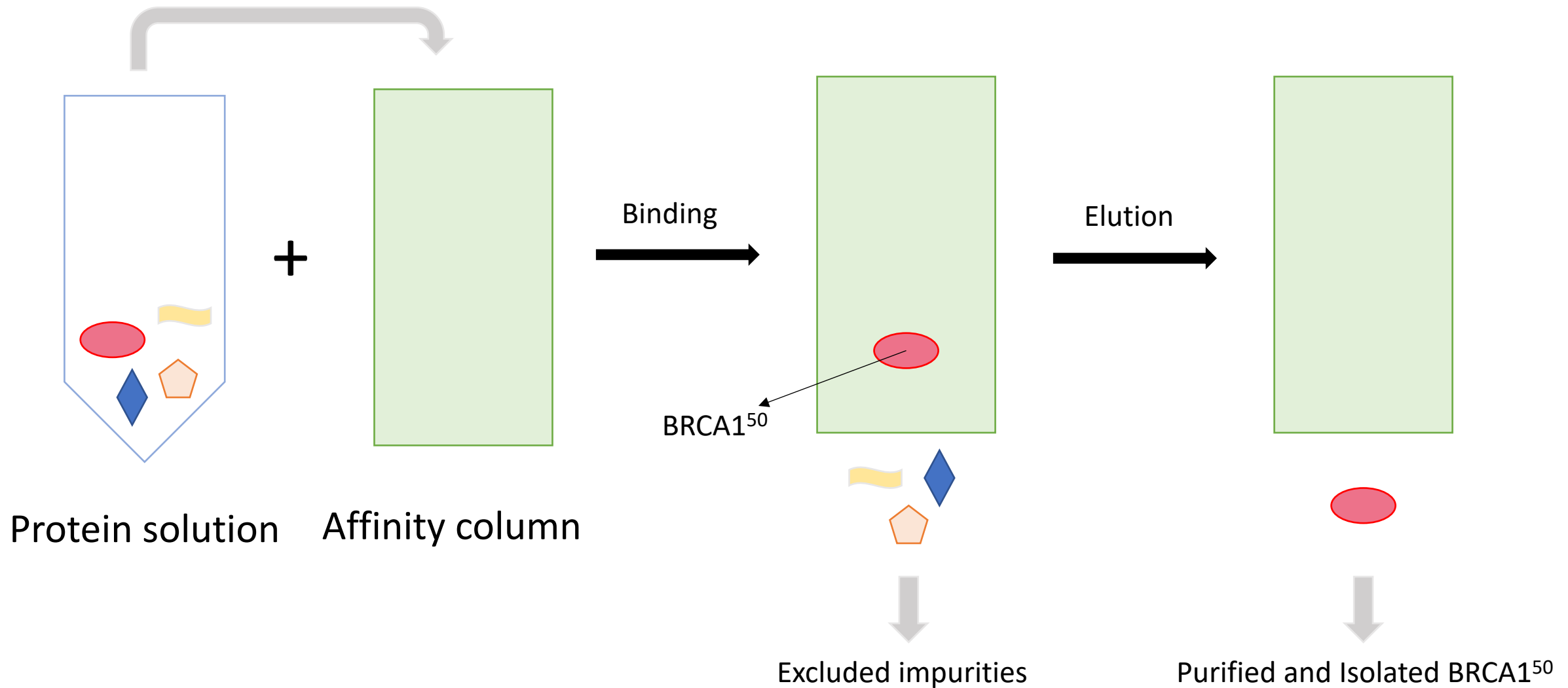
Goals

- Test whether the length of proteins affect binding between BRCA1 and PALB2 using Nuclear Magnetic Resonance

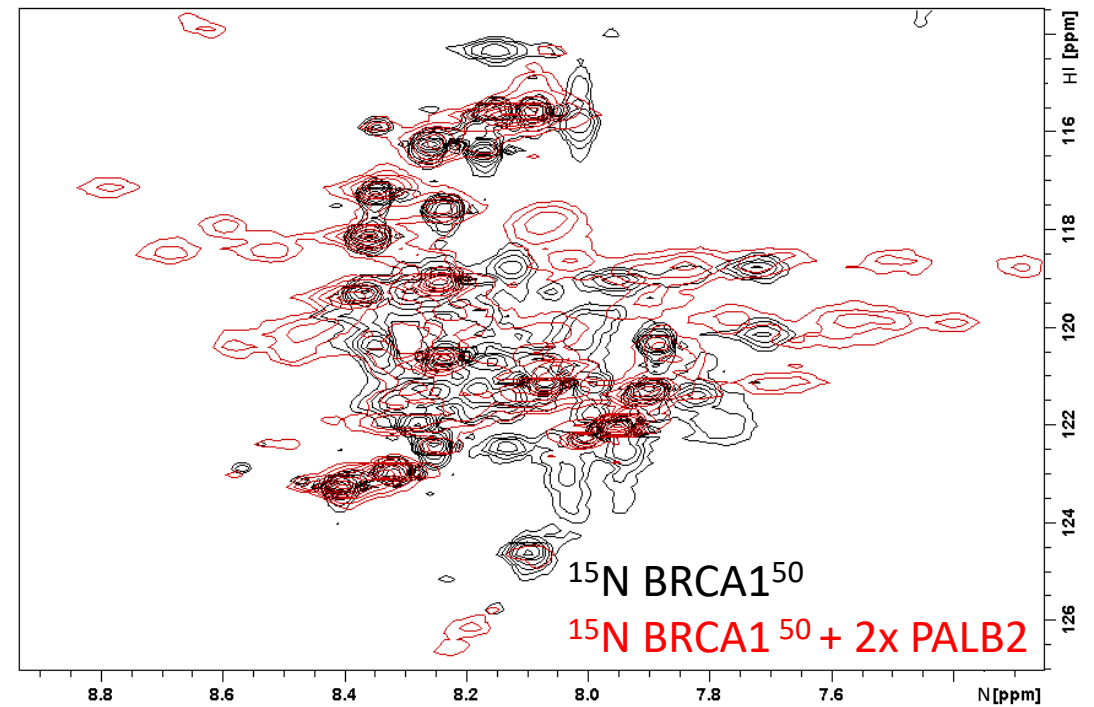
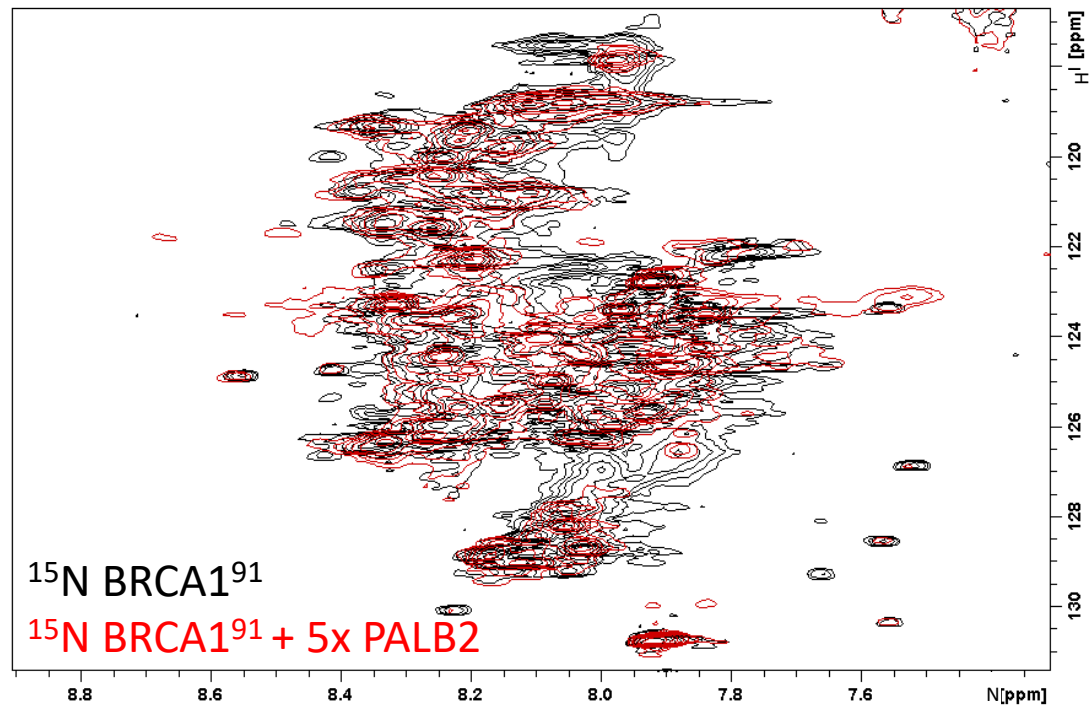
Engineering a functional piece of BRCA1



Isolating BRCA1 Protein from *E. coli* Proteins



The BRCA1 Length Affects Binding Conformation



Questions