

**March 5, 2020**

**Biochemistry Cumulative Exam.**

This multi-part question refers to research described in Banaszynski *et al. Cell* 2006 126: 995-1004, and Clift *et al. Cell* 2017 171:1692-1706, that describes methods to selectively degrade proteins in living cells.

Compare and contrast each method.

Describe the manner in which each method works in detail (include drawings if you wish).

What are the advantages and disadvantages of each?

How do these methods compare to other strategies used to perturb gene/protein function in cells such as gene knockout, siRNA or chemical inhibition?