

Biophysics Seminar 2/26/18 - Aaron Lucien

"Mechanisms of Enzyme Catalyzed Protein Unfolding and Translocation by Class I AAA+ Motors"

- ↳ ATP-dependent chaperone enzymes to detect and deal with aggregated proteins.
- ↳ Create a barrel which has a channel that feeds a polypeptide while translocating it.
- ↳ p97: most abundant protein in human cells.
- ↳ the protein take concerted steps along each polypeptide
 - ↳ has length dependence (including dependence on stepsize)
 - ↳ $\sim 19 \pm 7 \text{ AA s}^{-1}$
- ↳ "energy driven translocation"