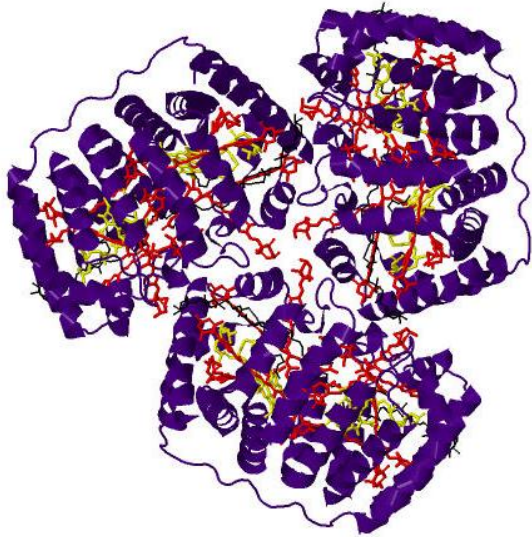


Spectrally Resolved Anti-Brownian Electrokinetic Trapping of the Peridinin Chlorophyll Protein

Samuel Bockenhauer, Quan Wang, and W. E. Moerner, Proc. SPIE 8427, 84274C (2012)



- ❖ PCP is a trimeric antenna protein containing two weakly coupled chlorophylls and eight peridinin (carotenoids) per monomer.
- ❖ We trap single PCPs for several seconds each.
- ❖ We split fluorescence into **red (>680 nm)** and **blue (<680 nm)** channels to observe steady spectral ratio (**a**) as well as slow spectral dynamics (**b,c**).

