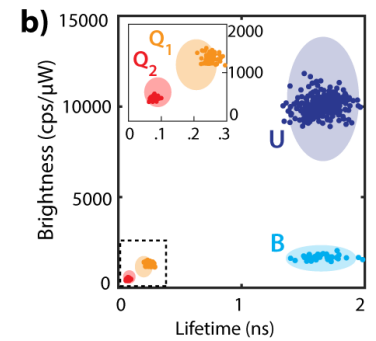
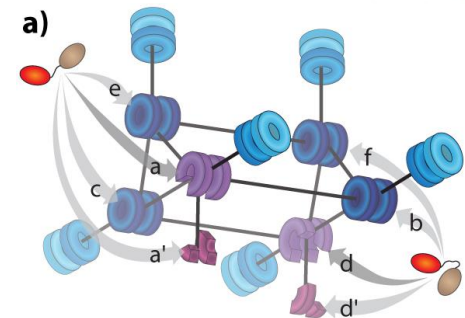
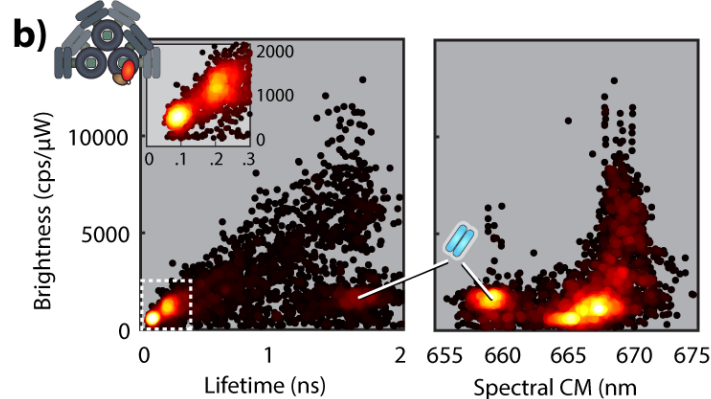
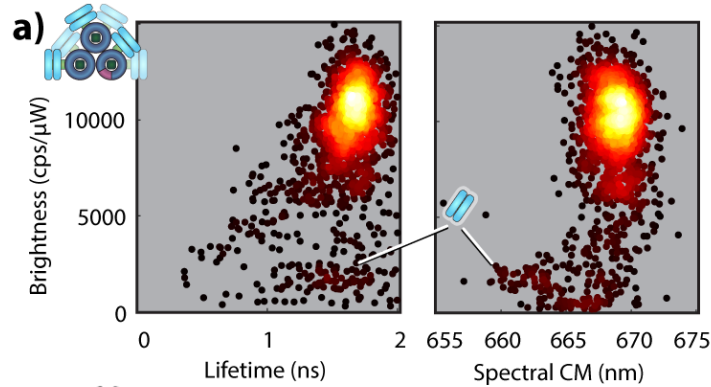
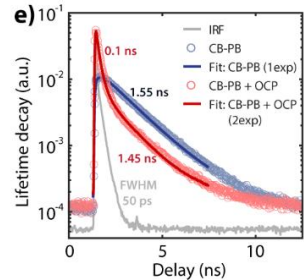
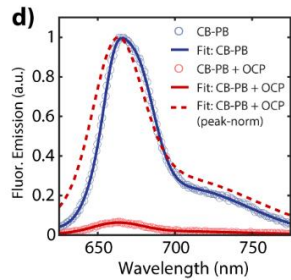
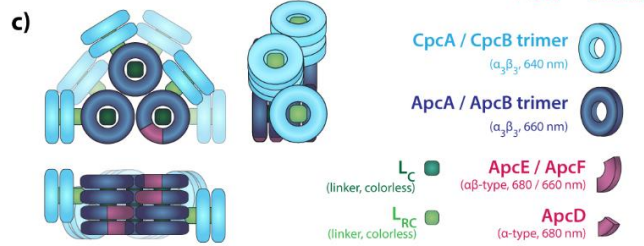
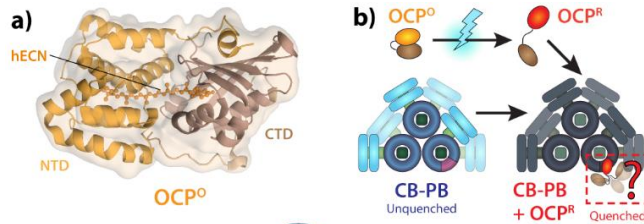
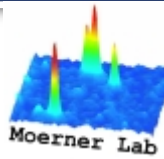


# Identification of two distinct binding sites for OCP on the phycobilisome by SM trapping and spectroscopy

Allison Squires, Peter Dahlberg, and W. E. Moerner,  
*Nature Commun.* **10**, article 1172 (2019)



The phycobilisome (CB-PB) is a pigment-protein complex responsible for solar harvesting in cyanobacteria and red algae. Excess light absorption can lead to damage. This excess energy is quenched by the orange carotenoid protein (OCP), but the mechanism of quenching undetermined. Multiparameter ABEL trap measurements and modeling reveal two binding sites for OCP during quenching.