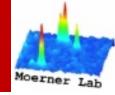
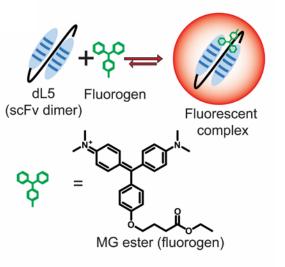
Super-resolution imaging of live bacteria cells using a genetically-directed, highly photostable fluoromodule

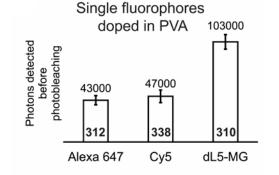


We report a method to label proteins in *Caulobacter crescentus* using a photostable fluoromodule that enables **long time scale** tracking and **STED imaging** of these proteins in live cells

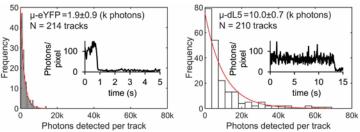


The labeling relies on noncovalent binding between a genetically encoded scFv, dL5, and a cell permeable fluorogen, Malachite Green ester. The fluoromodule has a **high binding affinity** (K_d=6pM) and

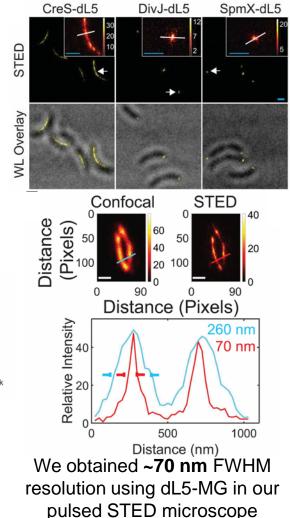
a slow off rate



dL5-MG emits **2x** more photons on average than Cy5 and Alexa647 *in vitro*



dL5-MG emits **5x** more photons than eYFP in cells



S. Saurabh, A. M. Perez, C. J. Comerci, L. Shapiro, and W. E. Moerner, JACS, 2016