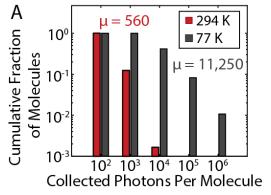


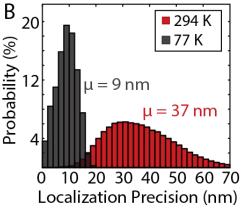
A Red Photoactivatable Fluorescent Protein for Cryogenic Super-Resolution Imaging



Motivation: Cryogenic super-resolution provides enhanced localization precision due to reduced photobleaching rates, a chemical free and rapid fixation method, and the possibility of correlation to cryogenic electron microscopy to specifically label structures of interest.

Result: PAmKate is a useful re-emitting fluorescent protein that can be activated at 77K for SR imaging.





Key Aspects:

- -Cells imaged in vitreous ice
- -Optical intensity
- < 100W/cm²
- -essential to avoid devitrificiation

