

Supplementary Material

Quantitative super-resolution imaging for the analysis of GPCR oligomerization.

Megan D. Joseph, Elena Tomas Bort, Richard P. Grose, Peter J. McCormick and Sabrina Simoncelli

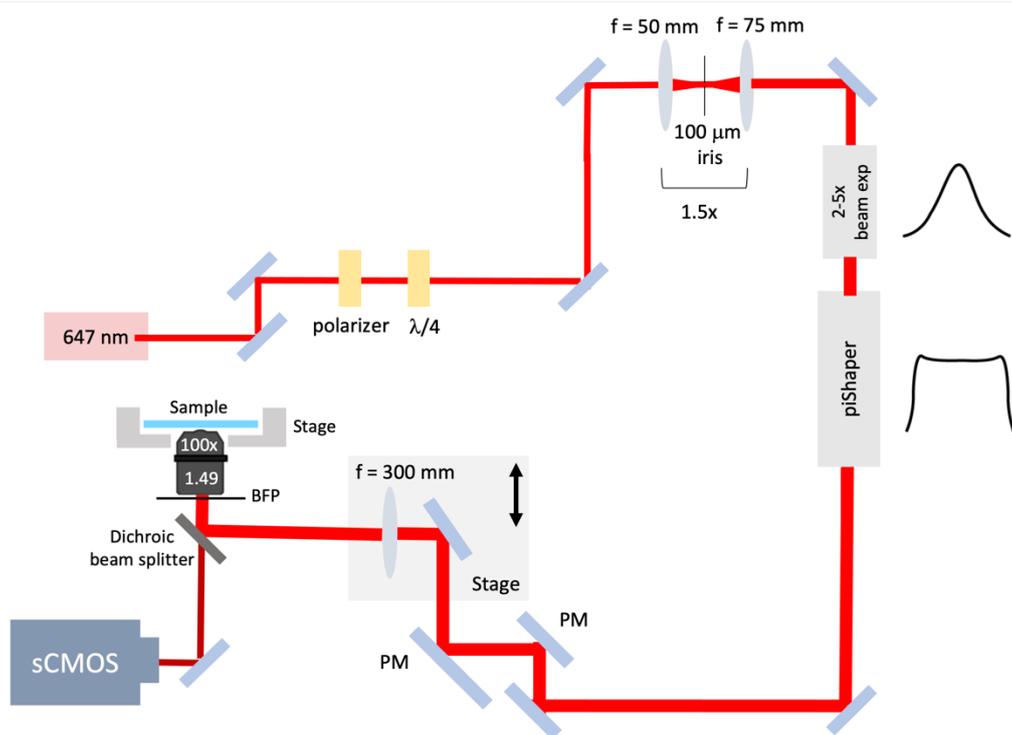


Figure S1. Schematic of custom-built super-resolution microscopy setup. Blue rectangles indicate dielectric mirrors, ellipses indicate lenses.

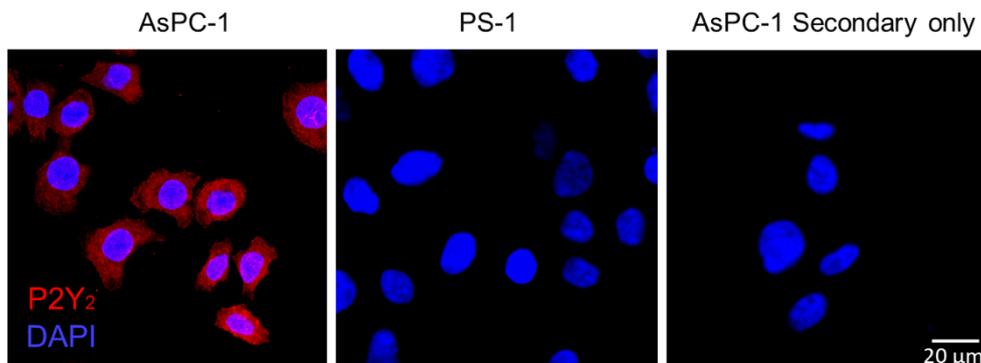


Figure S2. P2Y₂ and DAPI immunofluorescent staining of AsPC-1 and PS-1 cells for anti-P2Y₂ receptor antibody validation. AsPC-1 cells show bright red P2Y₂ staining compared to the low P2Y₂ expressing PS-1 cell line and a control using secondary antibody staining only. Images were taken with a confocal microscope. Contrasts setting are the same for all images.

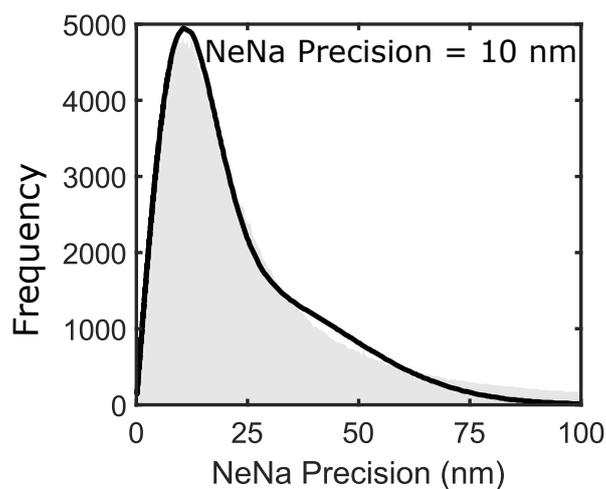


Figure S3. Overall localization precision of all super-resolution DNA-PAINT images. Nearest-Neighbour (NeNa) based analysis was used to determine this precision number.

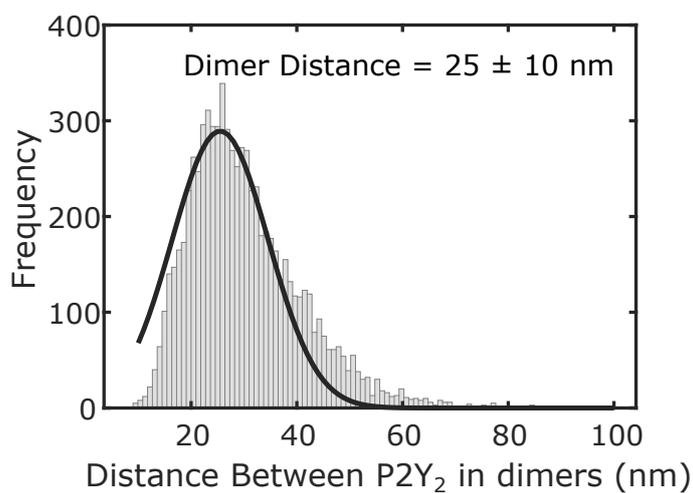


Figure S4. Distance between P2Y₂ receptors in dimers. Calculated from P2Y₂ receptors in dimers - pooled from all ROIs in every condition (control, agonist and antagonist treated AsPC-1 cells) as determined by the qPAINT analysis pipeline via *k*-means clustering analysis.