Room code: 0803#(enter)

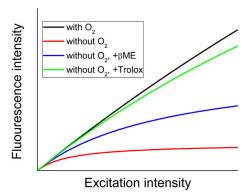
Sonicate TetraSpeck beads and equilibrate them to proper temperature. Take note of the lot number of the TetraSpeck beads (the concentration and actual diameter of the beads vary greatly from lot to lot).

Preprocessing standard fluorescent dye solution:

Tween-20: 1:100

O2-scavenging: PCA: 1:50, PCD: 1:50

Trolox (anti-blinking): 1:100

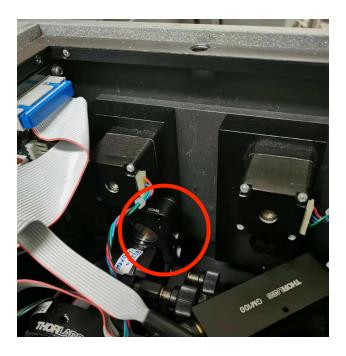


(Ha and Tinnefeld, 2012)

The filter wheel of the Olympus microscope should be set to position #6.



Open the lid of the optical components box and check whether the first filter is fully pushed in [excitation filter wheel should be set to #3 (405/488/561/635 nm)].



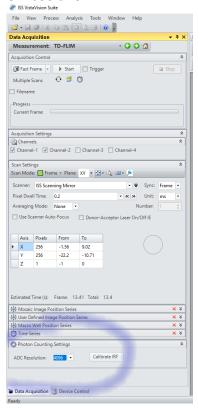
Make sure that the excitation light is not going through the TIRF mode fiber. Use the 8 knobs (circled out in the image below) to align and collimate the light.

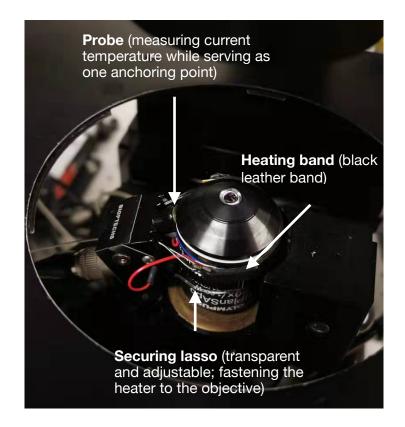


When using different pinhole sizes, re-alignment is necessary.

IRF measurement: dye (like 1-10 uM Rose Bengal) in saturated KI solution.

## ADC Resolution in TD-FLIM:





Setting up the objective heater: 1. Use a hex key of the correct size (5/64) to adjust (from the back) the probe indent so that it is firmly touching the objective. 2. Adjust the length of the securing lasso.