



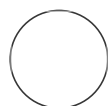
NOV 27, 2023

## Tetraspeck Bead Imaging

Joseph S Beckwith<sup>1</sup>

<sup>1</sup>Yusuf Hamied Department of Chemistry, University of Cambridge

ASAP Collaborative Research Network



Joseph S Beckwith

Yusuf Hamied Department of Chemistry, University of Cambridg...

### DISCLAIMER

DISCLAIMER – FOR INFORMATIONAL PURPOSES ONLY; USE AT YOUR OWN RISK

The protocol content here is for informational purposes only and does not constitute legal, medical, clinical, or safety advice, or otherwise; content added to [protocols.io](https://protocols.io) is not peer reviewed and may not have undergone a formal approval of any kind. Information presented in this protocol should not substitute for independent professional judgment, advice, diagnosis, or treatment. Any action you take or refrain from taking using or relying upon the information presented here is strictly at your own risk. You agree that neither the Company nor any of the authors, contributors, administrators, or anyone else associated with [protocols.io](https://protocols.io), can be held responsible for your use of the information contained in or linked to this protocol or any of our Sites/Apps and Services.

### ABSTRACT

Protocol for imaging tetraspeck beads on glass coverslips.

OPEN ACCESS



**DOI:**  
[dx.doi.org/10.17504/protocols.io.4r3l22br4l1y/v1](https://dx.doi.org/10.17504/protocols.io.4r3l22br4l1y/v1)

**Protocol Citation:** Joseph S Beckwith 2023. Tetraspeck Bead Imaging . [protocols.io](https://protocols.io) <https://dx.doi.org/10.17504/protocols.io.4r3l22br4l1y/v1>

**License:** This is an open access protocol distributed under the terms of the [Creative Commons Attribution License](https://creativecommons.org/licenses/by/4.0/), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

**Protocol status:** Working  
We use this protocol and it's working

**Created:** Nov 27, 2023

**Last Modified:** Nov 27, 2023

**Keywords:** ASAPCRN

**Funders**

**Acknowledgement:**

Aligning Science Across  
Parkinsons

Grant ID: ASAP 000478

## Slide Preparation

- 1 Glass coverslips (Fisher Scientific, 12373128, #1 thickness 22 mm x 50 mm) were plasma cleaned for 30 min (Ar plasma cleaner, PDC-002, Harrick Plasma). 30m
- 2 Stick a frame-seal slide chamber (9 mm x 9 mm, SLF0201, Biorad) on the cover glass. Use some blunt tweezers to press down the sticker on the glass. 5m
- 3 Add 50 µl of 0.01 % w/v poly-L-lysine (PLL, P4707, Sigma-Aldrich) to the well and wait for 10-20 min. 20m
- 4 Use a pipet to remove excess PLL. 2m
- 5 Wash with 50 µl of filtered (0.02 µm syringe filter, Whatman, 6809-1102) PBS. Pipet up and down in the corners of the well to wash. Repeat this step 3 times. 5m
- 6 Remove excess PBS and add 50 µl of the diluted TetraSpeck (1:625 dilution, 0.1 µm diameter TetraSpeck Microspheres, Thermo Fisher) beads to the well. Wait 2-3 minutes to let the beads settle and attach to the PLL-coated glass. 3m
- 7 Remove excess solution using a pipet. 2m

8 Wash with 50  $\mu$ l of filtered PBS. Pipet up and down in the corners of the well to wash. Repeat this step 2m times.

9 Remove excess PBS and add 50  $\mu$ l filtered PBS to the well. The sample should not dry out! 1m

## Imaging

10 Image the slide on a light microscope.