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Protocol status: Working

We use this protocol and it's working



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Abstract

Protocol for imaging using confocal microscope. Sections for analysis should be mounted on slides, stained for appropriate markers, and coverslipped. This protocol is using a Carl Zeiss LSM 880 confocal microscope.



- 1 Using the confocal microscope, capture images at 10x magnification using a resolution of either 1024×1024 or 2048×2048.
- 2 If needed for larger area of the brain, use tile-scanning with a 0.6 zoom factor and 10% overlap for automated reconstruction.
- 3 If acquiring z-stack images use 1-4um spacing. Use stack projection in ImageJ and exclude approximately 10% of the section's surface.
- 4 Making sure to use the same settings across all images for the same experiment, use ImageJ to process the images.