Jul 12, 2024

Imaging- Confocal

DOI
dx.doi.org/10.17504/protocols.io.j8nlk88y1l5r/v1

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DOI: dx.doi.org/10.17504/protocols.io.j8nlk88y1l5r/v1

Protocol Citation: daniel.dautan daniel, Per Svenningsson 2024. Imaging- Confocal. **protocols.io https://dx.doi.org/10.17504/protocols.io.j8nlk88y1l5r/v1**

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

Created: June 04, 2024

Last Modified: July 12, 2024

Protocol Integer ID: 101201

Keywords: ASAPCRN, imaging, mouse brain

Funders Acknowledgement:
Aligning Science Across Parkinson's
Grant ID: 020608

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 microcope.

1 Using the confocal microscope, capture images at 10x magnification using a resolution of either 1024x1024 or 2048x2048.

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.