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Create Mask for Axonal Quantification Analysis with FIJI

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Protocol status: Working

We use this protocol and it's working

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Keywords: ASAPCRN, mask for axonal quantification analysis, quantified mask from an image, quantified mask, axonal quantification analysis, axonal projection, tagged axonal projection, using fiji, mask, fluorescence, fiji, imagej software

Abstract

This is a protocol describing how to create a quantified mask from an image of fluorescence-tagged axonal projections using FIJI/ImageJ software.



- 1 Upload TIFF image of single-channel fluorescent axons to Fiji
- 2 Adjust brightness/contrast (keyboard shortcut: ctrl + shift + C)
- 3 Select Plugins → Analyze → Tubeness
- 4 Enter 0.5 for the sigma value
- 5 Synchronize windows: select Analyze → Tools → Synchronize windows
- 6 Open thresholding (shortcut: ctrl + shift + T)
- 7 Adjust the thresholding value to your needs
- 8 Select apply and create mask.
- 9 Save created mask as tiff file.