

StemCellClassifier Quick User's Guide
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1. Installation.

Download StemCellClassifier from <http://www.achucarro.org/downloads> (StemCellClassifier), unzip, and save the StemCellClassifier folder to the Fiji plugins folder.

2. Prepare folders.

2.1. Create a folder named "M1 Images"*.

2.2. Create a folder per experimental group inside "M1 Images".

2.3. Create a folder per individual experiment/animal inside the folder of the experimental group, and place inside your images (please use single images files, not containing more than one image).

*You may also use the "Folders example" provided with the StemCellClassifier pack.

3. Macro 1 (M1_StemCellClassifier).

3.1. Open Fiji and access M1_StemCellClassifier by clicking on the Plugins menu and then on the StemCellClassifier submenu (Plugins > StemCellClassifier > M1_StemCellClassifier).

3.2. Select the folder containing the subfolder "M1 Images". and click OK.

3.3. Select a cell in the image.

3.4. Add selections to the ROI manager by pressing the letter "t".

3.5. Select the center of the cell soma/nuclei in the image.

3.6. Add selection point to the ROI manager by pressing the letter "t".

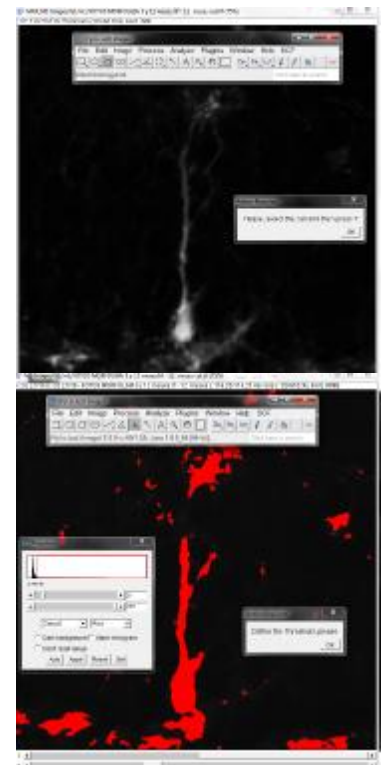
3.7. Click OK in the window "Action Required".

3.8. Define the threshold using the Threshold window (your cell should be on red).

3.9. Click OK in the window "Action Required".

3.10. A new window will appear asking if you want to analyze another cell from the same image, proceed as you wish.

3.11. Repeat steps 3.3 to 3.11.



4. Macro 2: (M2_StemCellClassifier).

4.1. Open Fiji and access M2_StemCellClassifier by clicking on the Plugins menu and then on the StemCellClassifier submenu (Plugins > StemCellClassifier > M2_StemCellClassifier).

4.2. Select the folder containing the subfolders "M1Processed Images" and "M1 ROIs".

4.3. The macro will analyze the images using previously defined selections and thresholds. Result tables will be stored in a new folder named "M2 Results".