

ImagejMacro Pre/Post-Processing Plugin for *OpenPolScope* software

ImagejMacro processing with Pol-Acquisition and Pol-Analyzer plugin v. 2.0,

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Overview

A macro is a simple program that automates a series of ImageJ commands. More information can be found here <http://rsbweb.nih.gov/ij/developer/macro/macros.html>

```
//Eg.1: PreProcessor Macro for Pol-Acquistion / Pol-Analyzer
setFont("SansSerif", 50, "antialiased");
setColor("black");
drawString("Pre-Processed", 100, 100);
run("Gaussian Blur...", "sigma=2 slice");
```

```
//Eg.2: PostProcessor Macro for Pol-Acquistion / Pol-Analyzer
setFont("SansSerif", 50, "antialiased");
setColor("white");
drawString("Post-Processed", 100, 200);
```

The above two codes are examples of ImageJ macro files.

Eg. 1 first writes the text 'Pre-Processed' on the raw image and then performs a Gaussian Blur on the raw image.

Eg. 2 first writes the text 'Post-Processed' in white on the computed image.

Note: The distinction between Pre & Post in context to Pol-Acquisition & Pol-Analyzer is that a 'Pre' macro affects the Raw images and the 'Post' macro affects the Computed images.

There are a number of built-in functions available in imageJ that can be utilized.

<http://rsbweb.nih.gov/ij/developer/macro/functions.html>

On top of that any third party plugin installed in imageJ that supports macro commands can also be utilized. <http://rsb.info.nih.gov/ij/plugins/index.html>

Additional examples of imageJ macro's can be found here <http://rsb.info.nih.gov/ij/macros/>

Once the sample is acquired or re-processed the ImagejMacro filename is inserted in the image metadata.

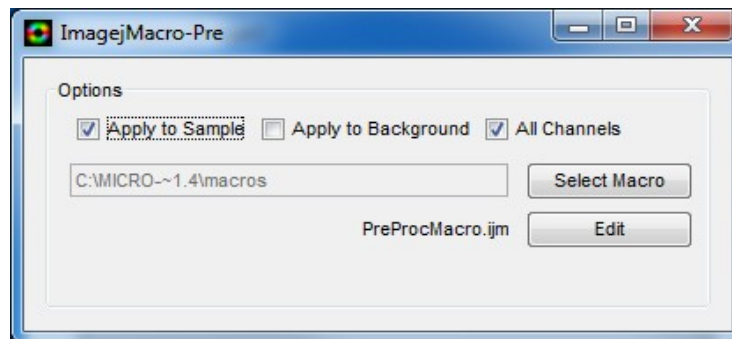
Summary	{ "Slices": 1, "~ BlackLevel": 0, "Interval_ms": "0", "UUUII
~ BlackLevel	4.0
~ ImagejMacro-Pre	C:\MICRO-~1.4\macros\PreProdMacro.ijm
~ Retardance Ceiling (nm)	24.0

Selecting Processing: ImagejMacro

On the Pol-Acquisition or Pol-Analyzer interface, select the checkbox corresponding to the ImagejMacro Pre/Post-Processing plugin. If ImagejMacro is not listed as available then you may need to install it via the OpenPolScope Setup.

#	Pre-Processing ...	Enabled	Description	Options
0	ImagejMacro-Pre	<input checked="" type="checkbox"/>	ImagejMacro applies th...	...
1	MatlabDemoPlugin...	<input type="checkbox"/>	MatlabDemoPlugin is a t...	...
2	Ratting	<input type="checkbox"/>	Ratting use a ROI sele...	...

Overview of Options

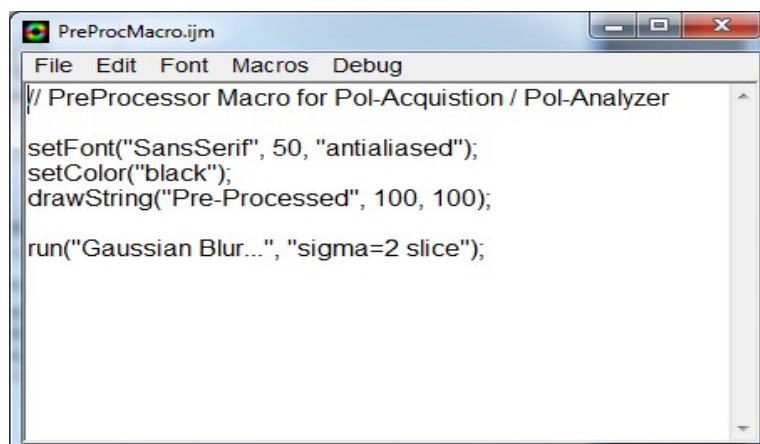


Apply to Sample: Applies the selected macro to the Sample dataset when running Process or Acquisition

Apply to Background: Applies the selected macro to the Background dataset when running Process or Acquisition

All Channels: Applies the selected Macro to all channels in the dataset. If a channel specific macro is selected this selection should be disabled.

Edit: The selected macro will open in an editable text window.



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From the Laboratory of
Rudolf Oldenbourg (rudolfo@mbl.edu)
Cellular Dynamics Program
Marine Biological Lab,
Woods Hole, MA
USA
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