About

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- Github: https://github.com/cudmore/bob-fiji-plugins

Purpose

Convert a hard-drive folder of .tif files and perform the following:

- Split 2 channel files into _ch1.tif and _ch2.tif channel separated files.
- Perform slice-by-slice stack alignment on one channel and apply transformations to the other. This requires 'MultiStackReg' to be installed (http://bradbusse.net/downloads.html).
- Optionally save 8-bit versions.

Installation

- Drag and drop bAlign_Batch_v6.py into your Fiji 'plugins' folder.
- Make sure you have 'MultiStackReg' plugin installed, you can download it from: http://bradbusse.net/downloads.html
 http://robertcudmore.org/software/download/MultiStackReg1.45 .jar

Running

- Select 'bAlign Batch v6' in Fiji plugin menu
- Select the hard-drive folder with .tif files to convert
- Fill in options
- Press 'OK'

Options

Channels

- Get number of channels from scanimage 3.x or 4.x header.
- Otherwise, assume all stacks have this number of channels.

Scanlmage4

- Remove linear calibration
- Crop all images

Note: Each image is cropped using the specified rectangle (in pixels).

If your stacks have a mixture of 1024x1024 and 512x512 images you want to put them into separate

folders and run bAlignBatch6 on each folder, specifying the proper rectangle (in pixels).

MultistackReg

- Run multistack reg (requires additional plugin)
 - If 2 channels then align on this channel
- Start alignment on middle slice
 - Otherwise, start alignment on this slice

Note: if you specify a slice below the bottom of a stack (for any of the stack you are converting), the FIRST slice of the stack will be selected for alignment.

Save 8-bit

Save another folder with 8-bit copies of your channel separated .tif stack
Note: These 8-bit versions are saved in a different folder. The main output folder still contains your channel separated originals with the original bit-depth.

