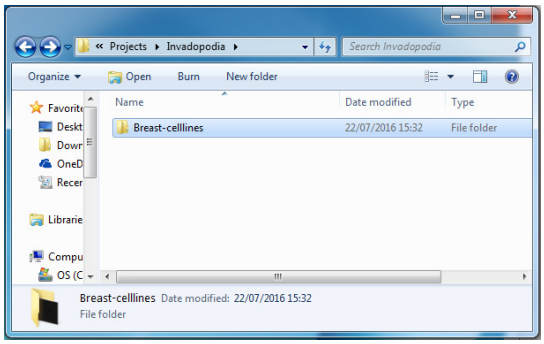
Macro for moving files out of folders in Micromanager

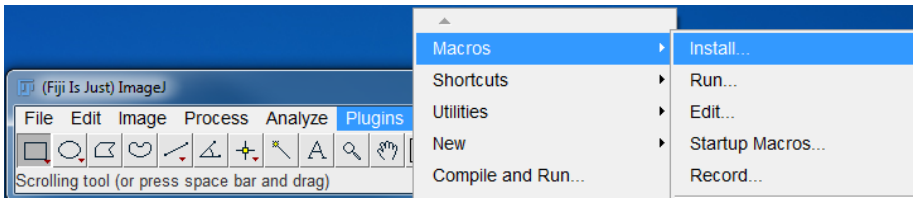
One of the little quirks of micromanager is it saves each image file in its own folder. This is fine for multiposition timelapse images or tiles as they likely need to be in their own folder. However for fixed imaging it is a bit of a pest. Matt has written a script to take .tif files out of folders and put them all together in one location.

However for it to work certain criteria must be met:

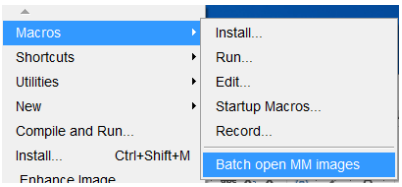
1) Ensure there is a parent folder containing all the images
2) If required create an output folder
3) Download the macro 'Batch open MM images.ijm'



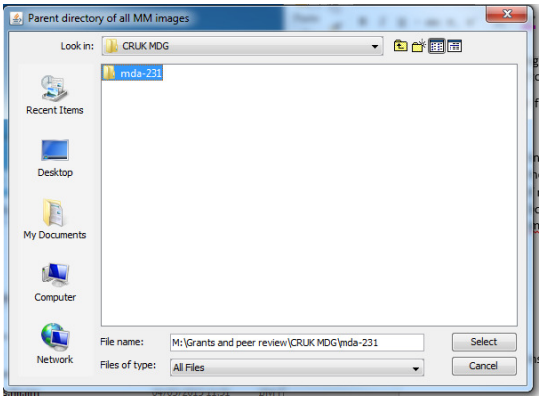
4) Install the macro:



5) Once installed the macro will appear in the Macros menu

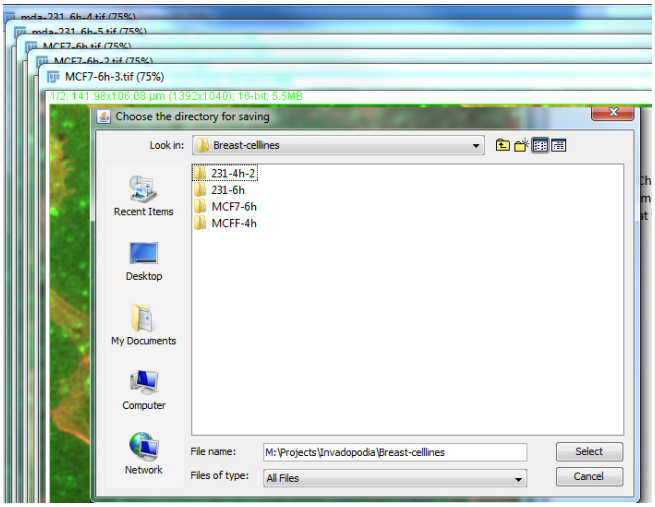


6) Select the 'parent' folder:

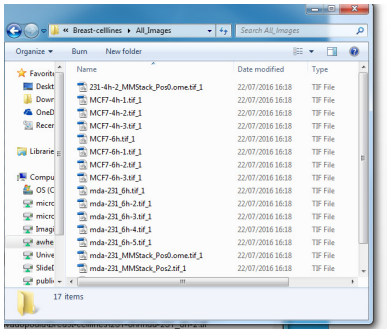


7) All the images it can find will open.

8) Choose the directory to save these images to: NB you can make a new folder at this point if you like



9) Check the output files are correct, the Log in ImageJ will show you where files are if not sure.



Macro code:

```
//Macro gets a list of paths to images, even if they are in subdirectories
//Then opens all the images

dir0=getDirectory("Parent directory of all MM images");
dir0list=newArray();
dir0list=getFileListFullDirectoryTree(dir0,dir0list);

for(j=0; j<dir0list.length; j++){
	print(dir0list[j]);
}

function getFileListFullDirectoryTree(dir,dirListToReturn){
	dirList=getFileList(dir);
	for(i=0;i<dirList.length;i++){
		//print(dirList[i]);
		if(endsWith(dirList[i], ".tif")==true)
		dirListToReturn=appendToArray(dir+dirList[i],dirListToReturn);
		if(File.isDirectory(dir+File.separator+dirList[i])==true)
		dirListToReturn=getFileListFullDirectoryTree(dir+dirList[i],dirListToReturn);
	}
	return dirListToReturn;
}

function appendToArray(value, array) {
temparray=newArray(lengthOf(array)+1);
for(i=0;i<lengthOf(array);i++){
temparray[i]=array[i];
//open(array[i]);
}
temparray[lengthOf(temparray)-1]=value;
array=temparray;
open(array[i]);
return array;
}

//Save option
saveloc = getDirectory("Choose the directory for saving");
count = nImages;

for (i=0; i<count; i++) {
title = getTitle;
saveAs("tiff", saveloc+title+"_1");
close;
}
```