

MATLAB R2021a - academic use

HOME PLOTS **B** EDITOR PUBLISH VIEW

New Open Save Compare Find Files
Go To Comment Find Indent
Insert
Run Run and Advance Run Section Advance Run Time

A Folder
LoadRawDataExportFilteredMovies_JOVE.m
BeatingCiliaBatchOMEfiles_JOVE.m
support scripts

Editor - C:\Users\BMIF\Documents\scriptForJOVEsubmission\scriptForJOVEsubmission\LoadRawDataExportFilteredMovies_JOVE.m

```

1 %% reading data
2 clear all
3 [FileNames, PathName, FilterIndex] = ...
4
5 if ~iscell(FileNames)
6     numFiles=1;
7     FileName=FileNames;
8 elseif iscell(FileNames)
9     numFiles=length(FileNames);
10    FileName=FileNames{1};
11 end
12 % load data
13 [data, specs]=readOMEFile_new(FileName, PathName, FilterIndex);
14 %% prompt user to define type
15 prompt={'What file type (mp4, avi, mov, ...);
16 dlg_title = 'Make Movie';
17 num_lines = 1;
18 options.Resize='on';
19 answer = inputdlg(prompt, dlg_title, num_lines, ...);
20 MovType=answer{1};
21 FrameRate=str2double(answer{2});
22 filt=answer{3};
23 timeFrame=str2double(answer{4});
24 pixelSize=str2double(answer{5});
25

```

Select one or more files to make movies...

File name: (*.czi, *.nd2)

Open Cancel

E Basic data specs verification

What is the acquisition time per frame (s)

0.003

OK Cancel

F

Calculating spectra per pixel and finding modes...

G Make Movie

What file type (mp4,avi) would you like to export?

mp4

What frame rate do you want to save video (fps)?

30

Immobile filter data (y or n)?

y

What is the acquisition time per frame (s)

0.003

What is the pixel size (microns)?

0.325

OK Cancel

H

Exporting Movie No.1 of total 2 Files

Progress bar