**Installation:**

- Download the latest version of ImageJ

- Copy all files in the 'Macros' folder and paste them into the 'plugins' folder within your ImageJ directory.

- In ImageJ, navigate to 'Plugins' > 'Install...' and choose the Analysis\_Pipeline\_v1.java and Coupling\_Pipeline.java files.

- The dialog will prompt you to save them in the 'plugins' folder of your ImageJ directory. Navigate to 'Analyze' and save the files there.

**Files and descriptions:**

**Analysis\_Pipeline**:

The pipeline used to analyze the laser images. When put into the spreadsheet, this calculates the high index fluid fill or height of SU8 features.

**Directions:**

Upon running, in the 'File name contains: ' box type 'Fill' or whatever keyword you use to distinguish your laser images. After the prompts stop showing up, navigate to the ROI Manager Window, hit 'Ctrl+A' and click on 'Measure'. Then bring up the 'Results' window and hit 'Ctrl+A' again and 'Ctrl+C' to copy the results into the spreadsheet.

Macros called in Analysis\_Pipeline:

SetPoint.ijm

CropStack.ijm

Colorize.ijm

LaserSelect.ijm

**Coupling\_Pipeline:**

The pipeline used to analyze coupling region images. When put into the spreadsheet, this calculates the low index fill.

**Directions:**

Upon running, in the 'File name contains: ' box type 'Coup', or the keyword you use to distinguish the coupling region images. Follow the prompts by fitting ellipses to the regions. After the prompts stop showing up, navigate to the ROI Manager Window hit 'Ctrl+A' and click on 'Measure'. Then bring up the 'Results' window and hit 'Ctrl+A' again and 'Ctrl+C' to copy the results into the spreadsheet.

Macros called in Coupling\_Pipeline:

SetPoint.ijm

RegionSelect.ijm