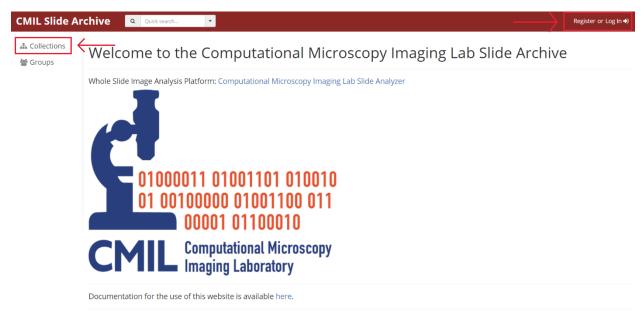
DSA and Registration Plugin

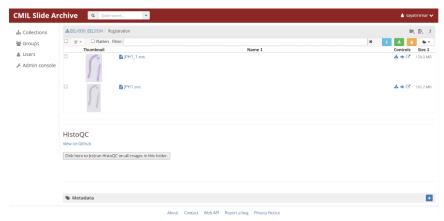
Registration and login

 Go to https://athena.rc.ufl.edu to access the Digital SlideArchive and click on 'Log In' with userame:public and password:public If you have any difficulty accessing your account, please contact us.



Access a Whole Slide Image

 'Collections' on the menu to the left to access folders where image data is saved. The saved images will appear as a list under folders. Navigate to Registration directory under EEL4930_EEL5934 collection. Under the directory, you can see images.



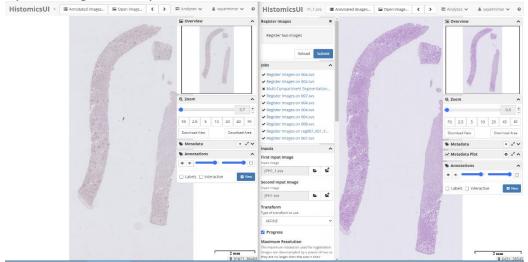
Visualize a Whole slide image in Histomics UI

A Whole Slide Image can be opened in a page by clicking the file name. To visualize
the image and associated annotations, click on Open in HistomicsUI where you can
analyze the whole image or parts of it by zooming in/out.

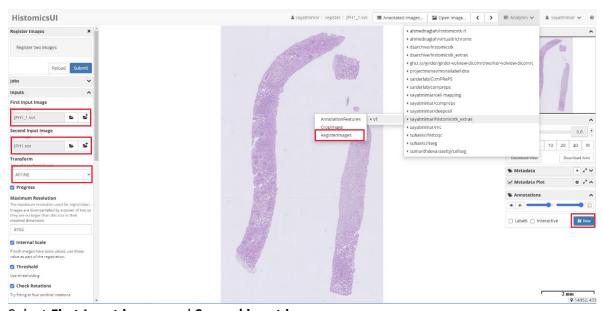


Running the plugin (histomicstk):

Open 2 images side my side in histomics UI:



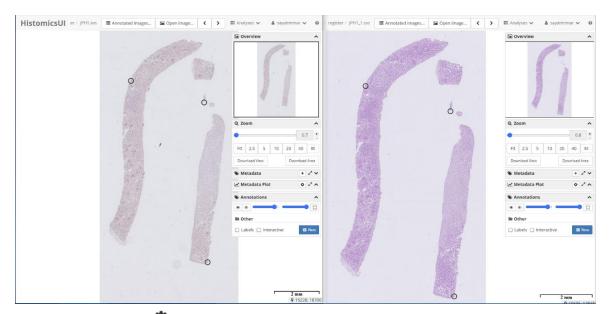
• Open the registration plugin from histomicstk_extras/latest/RegisterImages



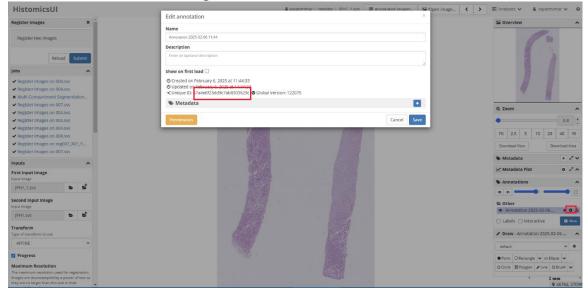
- Select First Input image and Second input image
- Select Affine from Transform
- Now, create an annotation layer for both images by clicking
 hand side and save.
- Click on the layer you just created and select Point. (Layer name can be changed by



• Select 3 reference points in both images in the same order as shown below. The landmarks are chosen to associate the same structures in both images.



 Once done, click on right next to the annotation layer you just created and copy the Unique ID from both images and paste them to Annotation ID on First Image and Annotation ID on Second Image as shown below.





You're all set! Now, **submit** the job. I should take anywhere between 15 to 30 mins depending on the size of the images. When it is done, there'll be a **RegisteredMerged** image in the Private Folder under Users/public user/Private.

Visualize output by overlaying the registered image on the first one. Image 1 in red,

image 2 in green, overlap in yellow.

