FluidFM BIO SERIES. CYSOP TIME-LAPSE

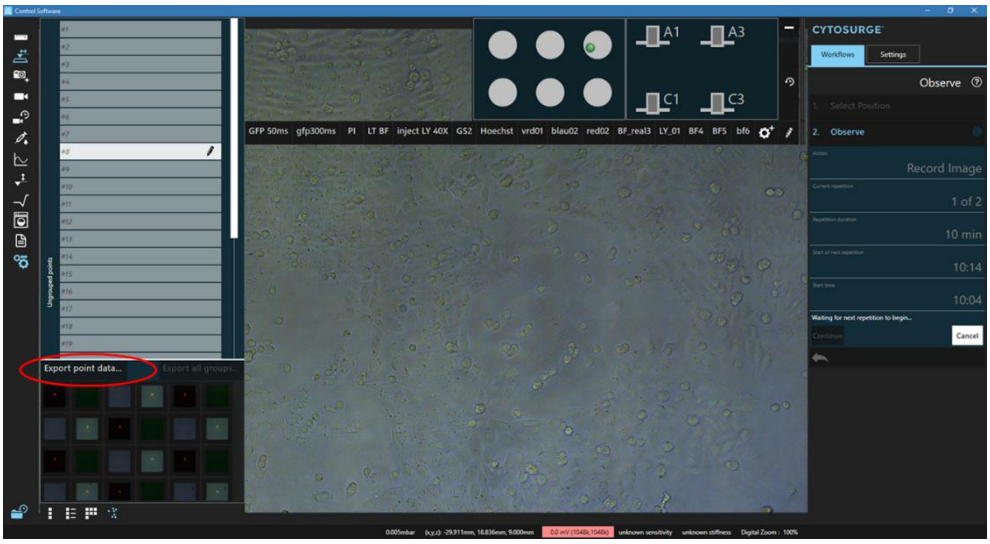
OBSERVATION WORKFLOW: TIME-LAPSE VIDEOS

Cytosurge AG, 12 November 2019

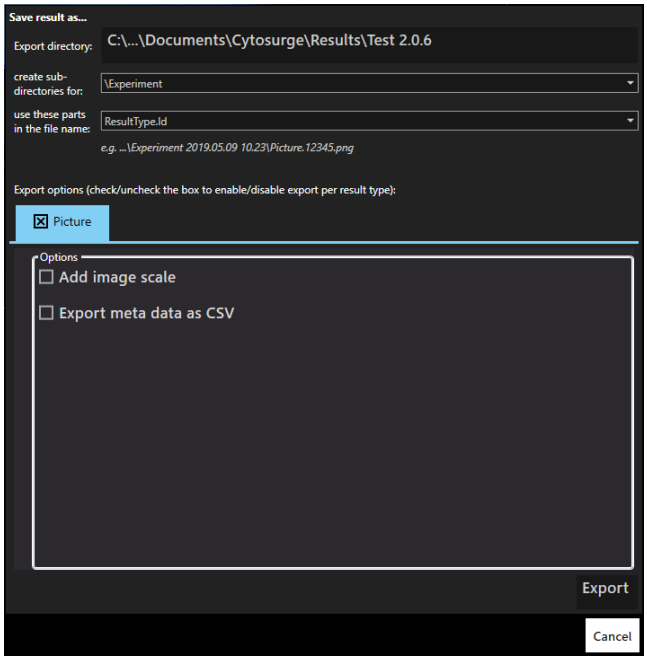
1. EXPORTING DATA OF A SPECIFIC POINT WITH ARYA 2.0.6

1. Once the observation workflow is complete, click on "Show results" (folder icon, on the bottom left corner of ARYA, indicated in red).

2. From the 4 icons, select the one on the right, which will group the images according to points. Select a point of interest: images will appear chronologically in the menu below. Click then in "Export point data…".



3. The following menu will appear. The final folder where the pictures will be stored must be specified: this folder must contain ONLY the exported pictures (unselect the "create subdirectories" option and "export meta data as CSV). Click on "Export".

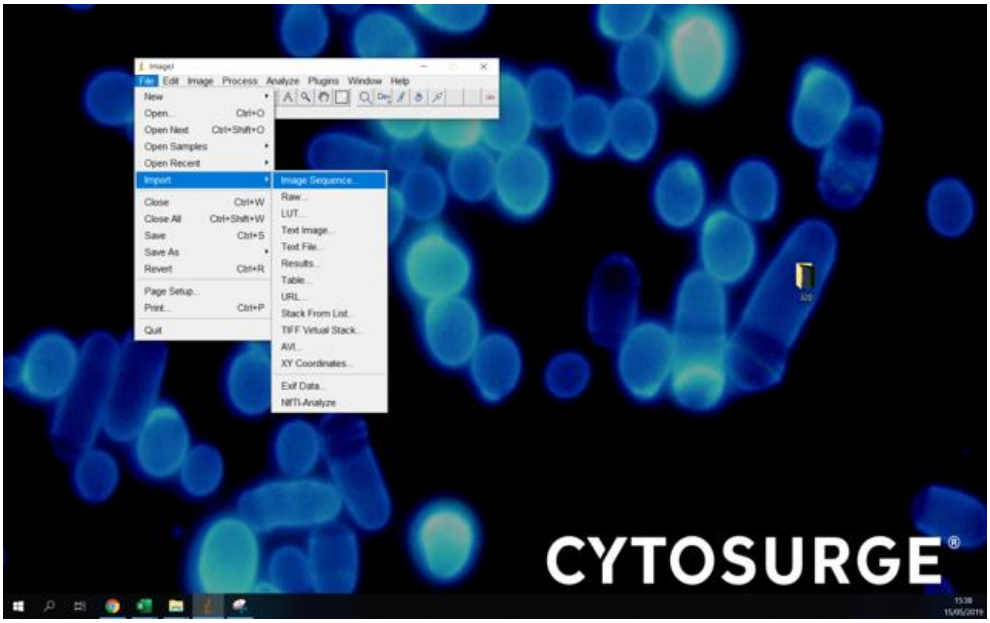


2. CREATING A TIME-LAPSE WITH IMAGEJ

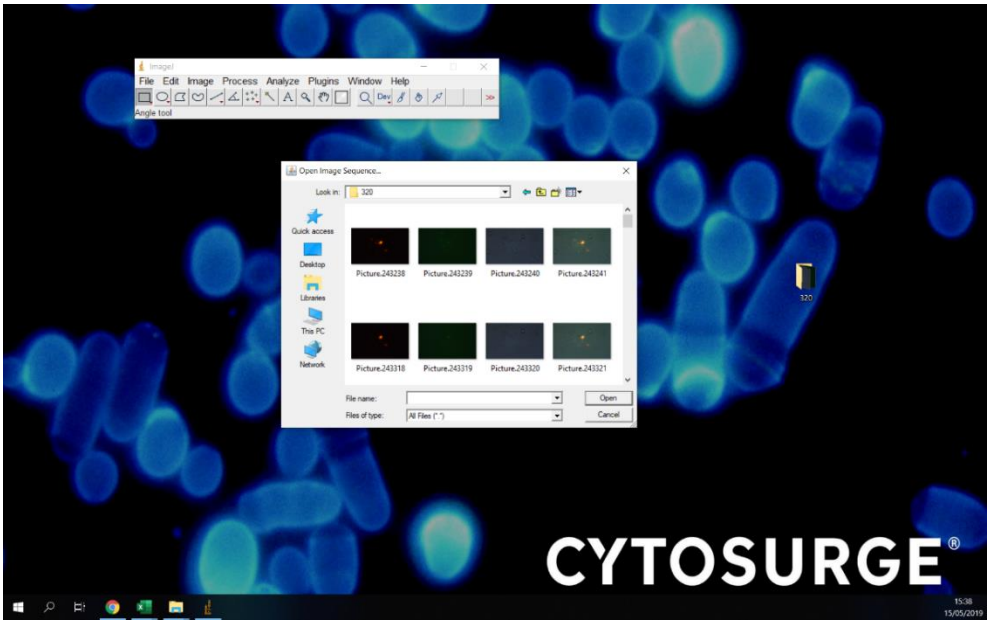
1. Download ImageJ (https://imagej.nih.gov/ij/download.html).
2. Open Image J:

In our example, the images are stored in the folder 320 (located in the desktop).

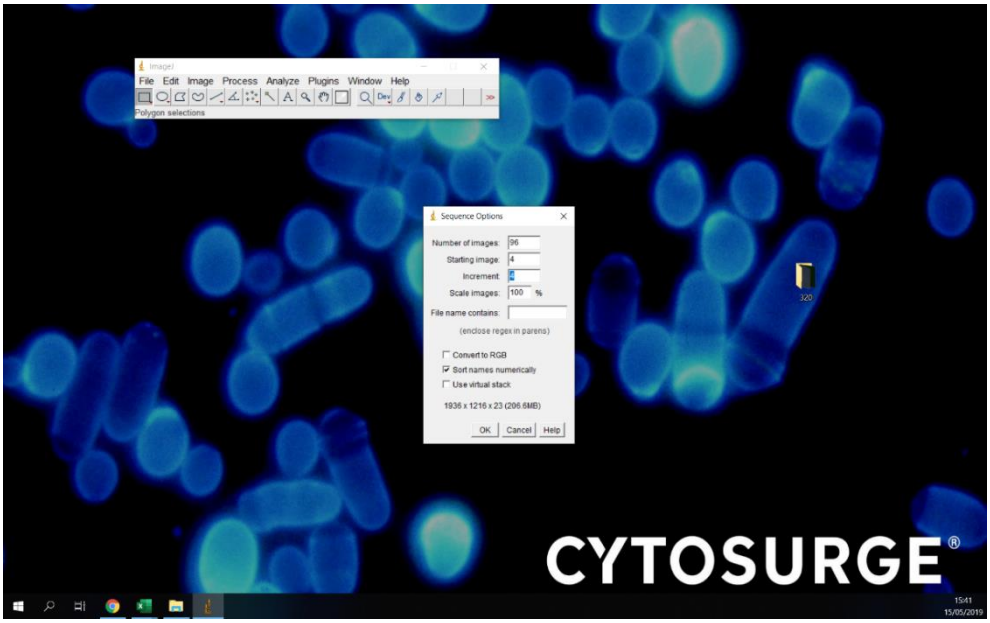
3. In ImageJ, importing the images of interest by selecting File>Import>Image Sequence:



4. Select the folder with the images, and then, one image of it. Click "Open":



5. Specify the sequence options for image importing:

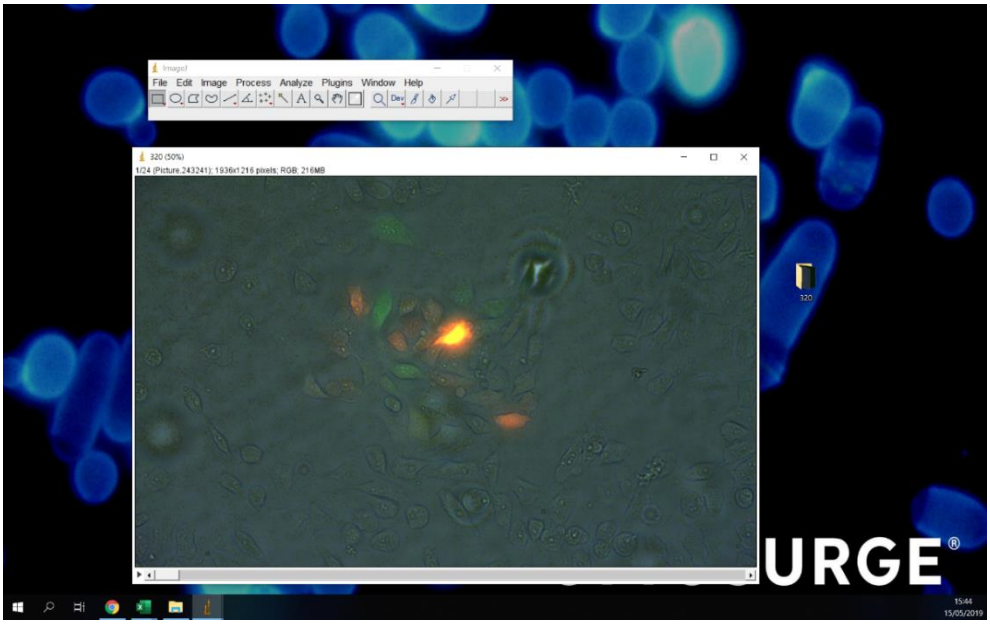


Sequence Options (important values):

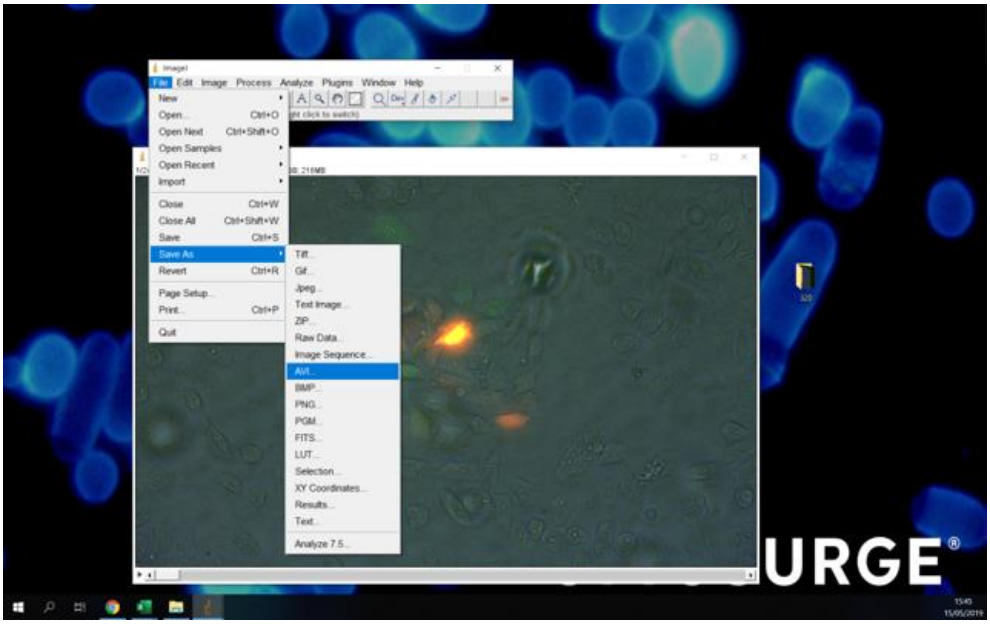
- **Number of images**: introduce the total number of images in the specified folder.
- **Starting image**: introduce which position in the folder occupies the picture that will start the sequence (in our case, the 4th position, which corresponds to the merged image)
- **Increment**: indicates how many pictures must be skipped in the sequence; e.g. if it is set 3, every third image will be opened (in our case, it must be opened every 4 images, which corresponds then to only the merged images)

Click "OK".

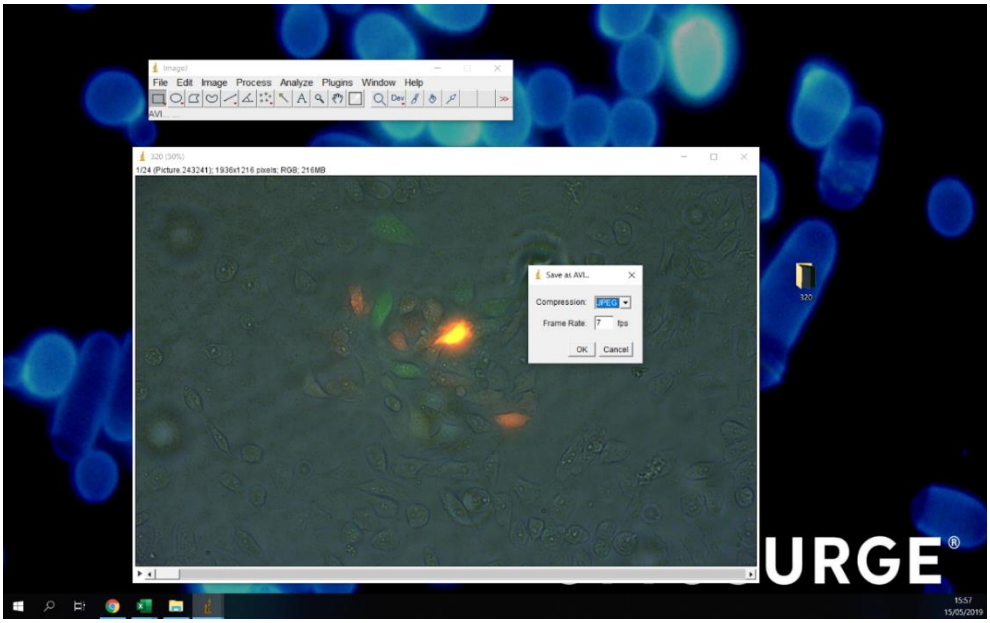
6. A stacked file will be generated:



7. Save this file (File>Save As…>AVI):



8. Indicate the properties of the resulting video (time-lapse):



In this case, the user can choose the compression grade (JPEG or PNG) and the frame rate (speed of the time-lapse).