Microscope Video Capture Quick Reference Sheet

Setup:

- Open VirtualDub
- To activate the camera, select 'File', and 'Capture AVI'
- Select 'File', and 'Set Capture File'
    - Select where you would like to save the resulting video, and what you would like it to be called

Settings:

- To adjust video resolution, select 'Video', and 'Capture Pin'
    - This menu provides three resolution options for your video
    - Keep in mind that higher resolutions lead to drastically larger files
- To adjust brightness and frame rate, select 'Video', and 'Capture Filter'
    - Adjust the exposure time to the approximate time you want in between frames (Ex. 10 fps ~ 0.1s exposure time)
    - If your video becomes too dark or light to see, you can adjust the light on your sample using the iris.

Capture:

- To adjust the length of the video, select 'Capture', and 'Stop Conditions'
    - We usually only need videos of around 5-10 seconds
- To see what your video will look like without saving, you can select 'Capture' and 'Test Capture'
- To capture and save your video, select 'Capture' and 'Capture Video'
- **Record the frame rate of your video**
    - **You can find the frame rate in the information panel on the right of the video capture screen, under the video tab and next to the label "average rate"**

Other Notes:

- Keep in mind, different videos will have different frame rates
- If you change the resolution of your video, or the objective you are using, the distance-to-pixel ratio will change