Installation Manual for Cellprofiler-Omero Conda environment

Installation Conda environment "WS44"

- 1) Prepare before:
 - Install C++ Build Tools --> all: https://www.techpowerup.com/download/visual-c-redistributable-runtime-package-all-in-one/
 - JDK 11 from Oracle (login required)
 - Set JAVA_HOME and JAVA_JDK
 - CUDA Toolkit (for cellpose): https://developer.nvidia.com/cuda-11.2.2-download-archive?
 - target_os=Windows&target_arch=x86_64&target_version=10&target_type=exelocal cuDNN: https://www.tensorflow.org/install/source_windows#gpu
- 2) Open Anaconda Prompt as Administrator:

Create environment # Create environment conda create --name WS44 python=3.8 python -m pip install --upgrade pip (23.0) pip install --upgrade wheel (0.38.4)

- pip install cellprofiler==4.2.5
 pip install pandas
- pip install seaborn

Install Cellprofiler

3) check if Cellprofiler works

(type cellprofiler, let GUI start) (GUI should start, but might give an error that certain plugins are not found)

4) Install Cellpose

Install Cellpose

pip3 install torch torchvision torchaudio --extra-index-url https://download.pytorch.org/whl/cull6 pip install cellpose==2.0.5

- 5) Configure Cellprofiler Plugins
 - Open Cellprofiler and configure plugins directory e.g. C:\Users\Public\GitHub\CellProfiler-plugins
- 6) Install Omero and Jupyter

Install Omero and Jupyter

#Install Omero pip install ezomero==1.1.0 # Jupyter Notebook pip install jupyter ipython kernel install --name WS44

7) Configure Java Virtual Machine

- Copy Java folder to Github Cellprofiler folder
 Set CP_JAVA_HOME Variable to Github Cellprofiler java folder