Install CellProfiler with cellpose + CUDA

FOR WINDOWS

1) Download and install Microsoft Visual C++ Redistributable 2015-2022

Select the version appropriate for your architecture. On windows, you can determine this by going to Control Panel then searching for System and looking next to "System type:" for your processor architecture.

2) Download and install Microsoft Visual Studio C++ build tools

NOTE: Make sure to check 'Desktop development with C++' under Desktop and Mobile in the installer

3) Download and install Java JDK 11

4) Access the Windows Environment Variables and make sure that both JAVA_HOME and JDK_HOME are set to the location of your JDK installation (one or both may be set during the installation process, depending on the exact installer you used and your configuration during install).

For each new variable, set its value to the location of your JDK installation (i.e., the location of the folder beginning with 'jdk11'). You can do this by clicking the Browse Directory... button. Usually this is in your 'Program Files' in a folder called 'Java'.

5) Open your Anaconda Prompt and type:

```
conda create --name cp_cellpose python=3.8
```

6) Activate the environment

```
conda activate cp_cellpose
```

7) Install numpy

```
pip install numpy
```

8) Install CellProfiler (this install the latest version; check here the last version)

```
pip install cellprofiler==4.2.5
```

If you want to pin CellProfiler to an specific version, just change the code above to `pip install cellprofiler==4.2.5`, for example

9) Follow the instructions below starting from **“2.Clone the CellProfiler-plugins repository.”** https://plugins.cellprofiler.org/using_plugins.html#installing-plugins-with-dependencies-using-cellprofiler-from-source

If you have a CUDA-capable GPU, proceed to the following:

10) Follow the instructions here https://github.com/MouseLand/cellpose#gpu-version-cuda-on-windows-or-linux on how to configure CUDA for cellpose.