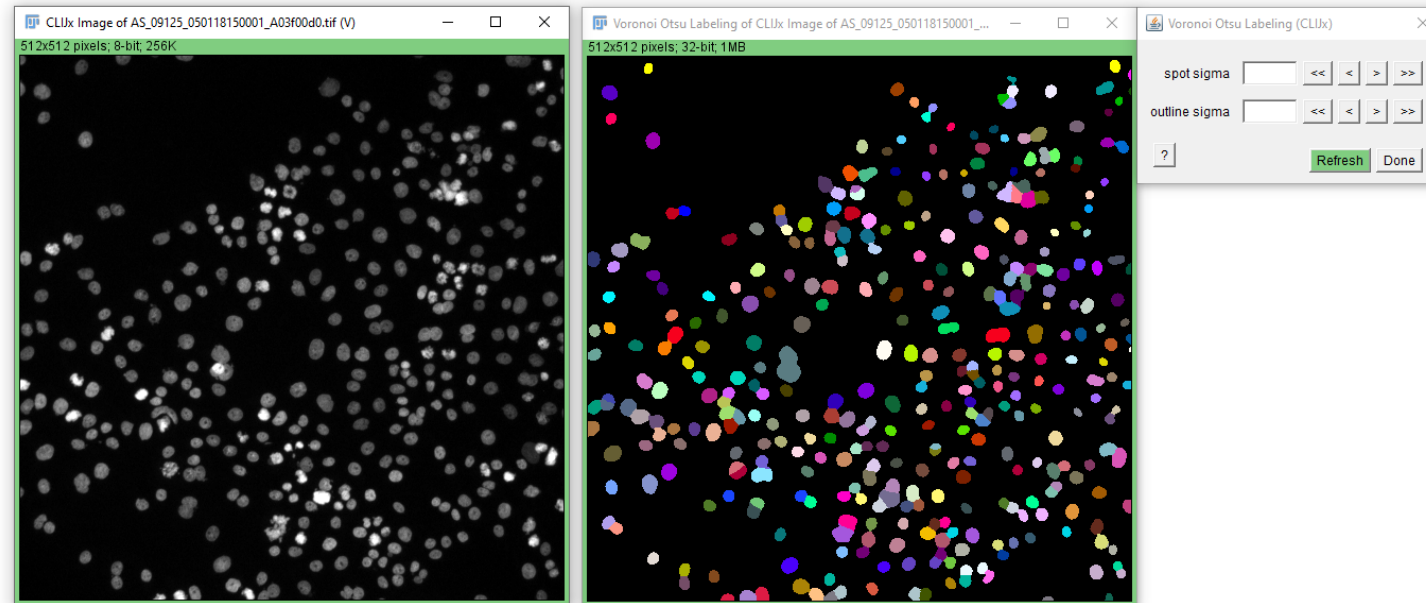
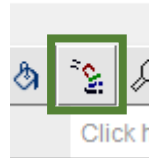


Homework: BBBC001 cell count

- Download and install Fiji
 - <http://fiji.sc/Downloads>
- Download the BBBC001 dataset (TIF), unzip it and count nuclei in the first image file
 - <https://bbbc.broadinstitute.org/BBBC001>
 - AS_09125_050118150001_A03f00d0.tif

• Hints:

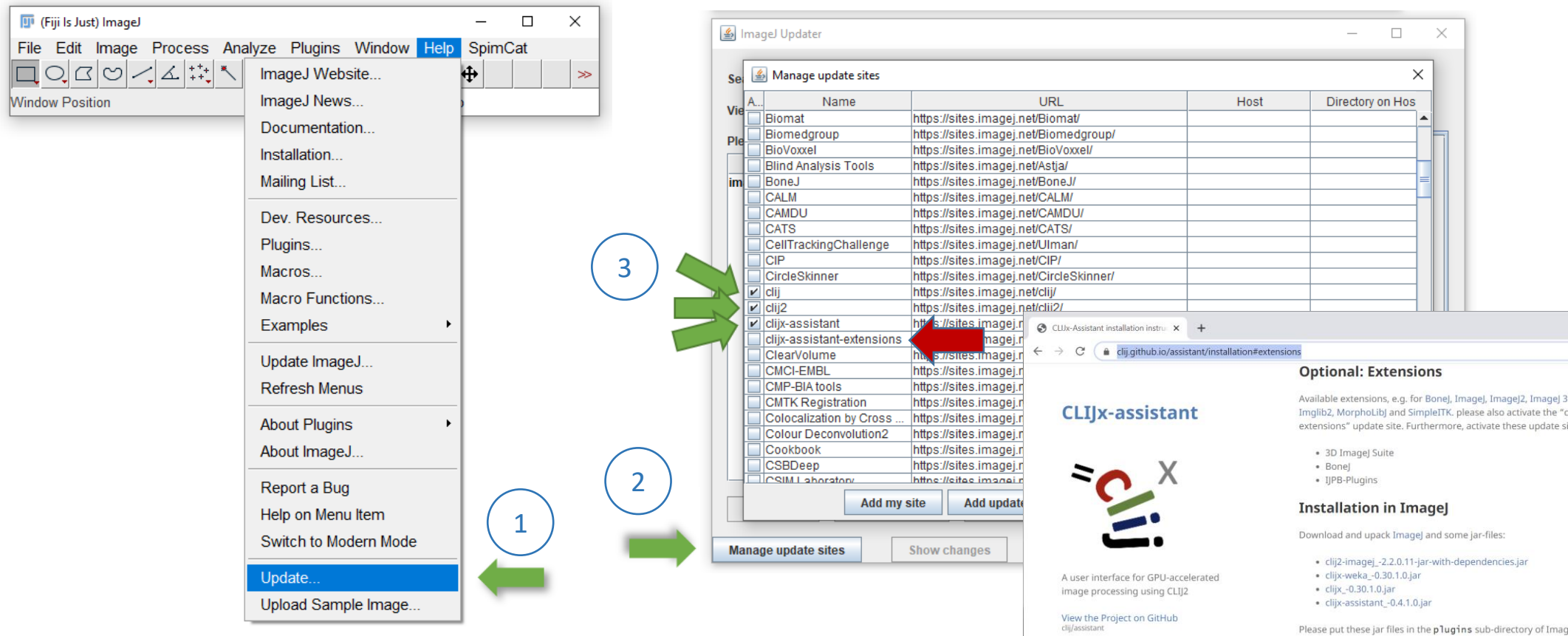
- Use CLIJ Assistant [Right-click menu] Label > Voronoi-Otsu-Labeling to segment the nuclei
- Use Analyze > Set Measurements and Analyze > Measure to determine the maximum intensity in the label image (= number of labels)



- Enter your count here: <https://docs.google.com/spreadsheets/d/1Ek-23Soro5XZ3y1kJHpvaTaa1f4n2C7G3WX0qddD-78/edit?usp=sharing>
- Be a good scientist: Don't cheat! ;-)

Hint: CLIJ installation

- Just activate the CLIJ update sites, in menu Help > Update...
- Linux users: you may need to install OpenCL, e.g. `apt-get install ocl-icd-devel`



The screenshot illustrates the installation process for CLIJ in ImageJ. It shows the 'Help' menu with 'Update...' selected (Step 1). The 'ImageJ Updater' dialog is open, showing a list of update sites with 'clij' and 'clijx-assistant' checked (Step 2). A red arrow points to the 'Add my site' button (Step 3). A browser window displays the CLIJx-assistant installation instructions, including a list of optional extensions and the installation steps for ImageJ.

Name	URL	Host	Directory on Host
Biomat	https://sites.imagej.net/Biomat/		
Biomedgroup	https://sites.imagej.net/Biomedgroup/		
BioVoxel	https://sites.imagej.net/BioVoxel/		
Blind Analysis Tools	https://sites.imagej.net/Astja/		
BoneJ	https://sites.imagej.net/BoneJ/		
CALM	https://sites.imagej.net/CALM/		
CAMDU	https://sites.imagej.net/CAMDU/		
CATS	https://sites.imagej.net/CATS/		
CellTrackingChallenge	https://sites.imagej.net/Ulman/		
CIP	https://sites.imagej.net/CIP/		
CircleSkinner	https://sites.imagej.net/CircleSkinner/		
clij	https://sites.imagej.net/clij/		
clij2	https://sites.imagej.net/clij2/		
clijx-assistant	https://sites.imagej.net/clijx-assistant/		
clijx-assistant-extensions	https://sites.imagej.net/clijx-assistant-extensions/		
ClearVolume	https://sites.imagej.net/ClearVolume/		
CMCI-EMBL	https://sites.imagej.net/CMCI-EMBL/		
CMP-BIA tools	https://sites.imagej.net/CMP-BIA tools/		
CMTK Registration	https://sites.imagej.net/CMTK Registration/		
Colocalization by Cross ...	https://sites.imagej.net/Colocalization by Cross .../		
Colour Deconvolution2	https://sites.imagej.net/Colour Deconvolution2/		
Cookbook	https://sites.imagej.net/Cookbook/		
CSBDeep	https://sites.imagej.net/CSBDeep/		
CSM Laboratory	https://sites.imagej.net/CSM Laboratory/		

Optional: Extensions

Available extensions, e.g. for BoneJ, ImageJ, ImageJ2, ImageJ 3D Imglb2, MorphoLibJ and SimpleITK, please also activate the "clij extensions" update site. Furthermore, activate these update sites:

- 3D Image Suite
- BoneJ
- IJPB-Plugins

Installation in ImageJ

Download and unpack ImageJ and some jar-files:

- clij2-imagej_-2.2.0.11-jar-with-dependencies.jar
- clijx-weka_-0.30.1.0.jar
- clijx_-0.30.1.0.jar
- clijx-assistant_-0.4.1.0.jar

Please put these jar files in the **plugins** sub-directory of ImageJ.