

Region Growing

Image Processing & Analysis for Life Scientists

Olivier Burri, Romain Guiet & Arne Seitz

An Easy Example

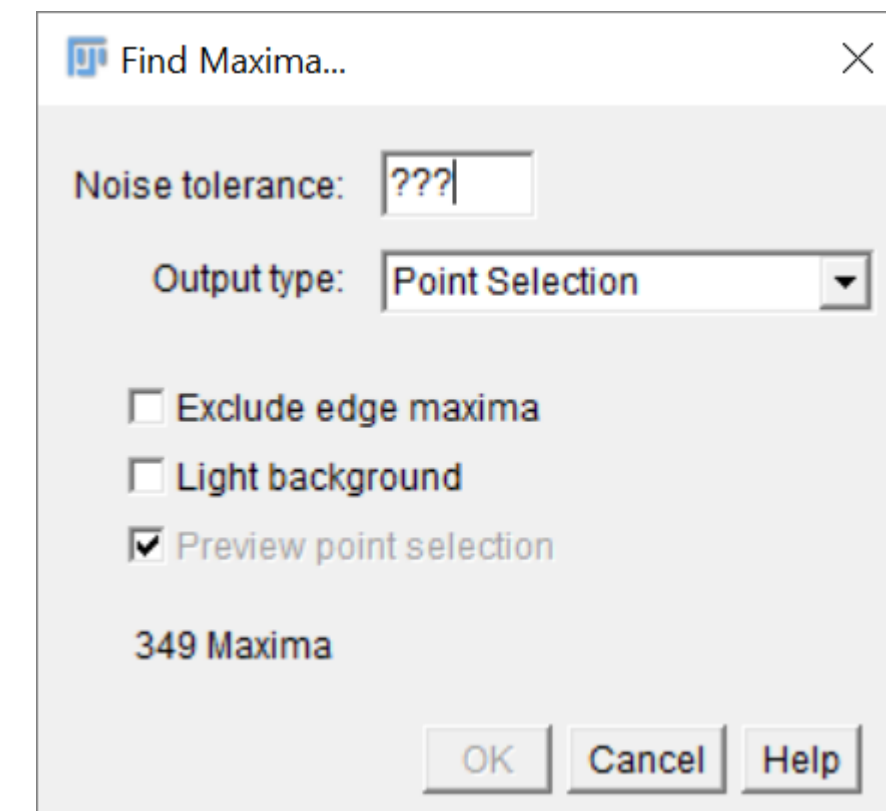
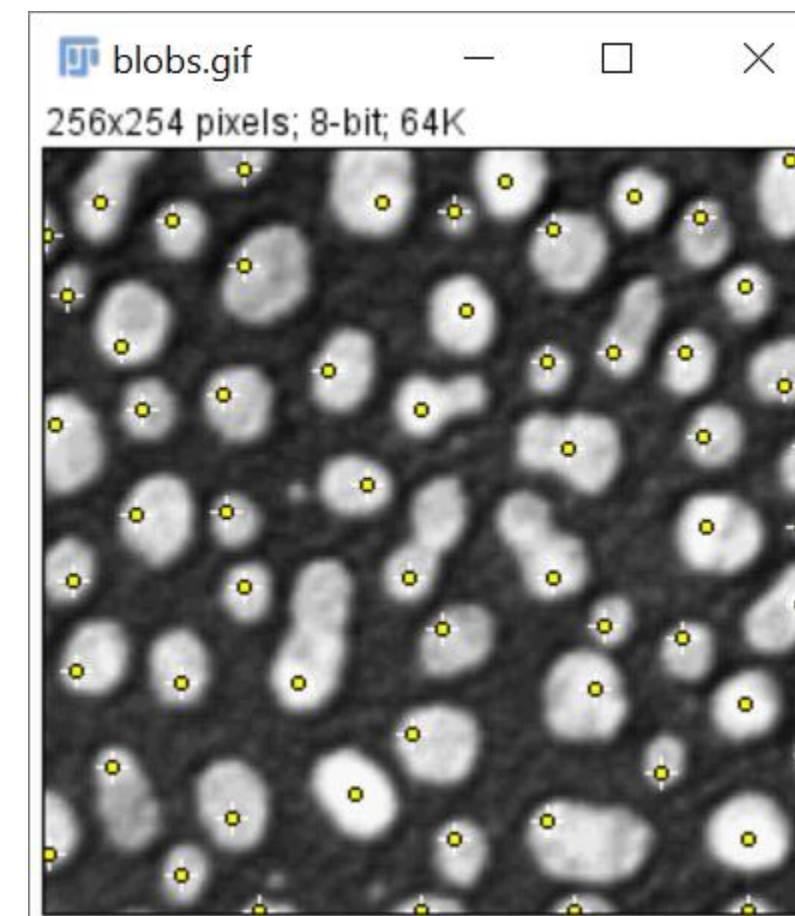
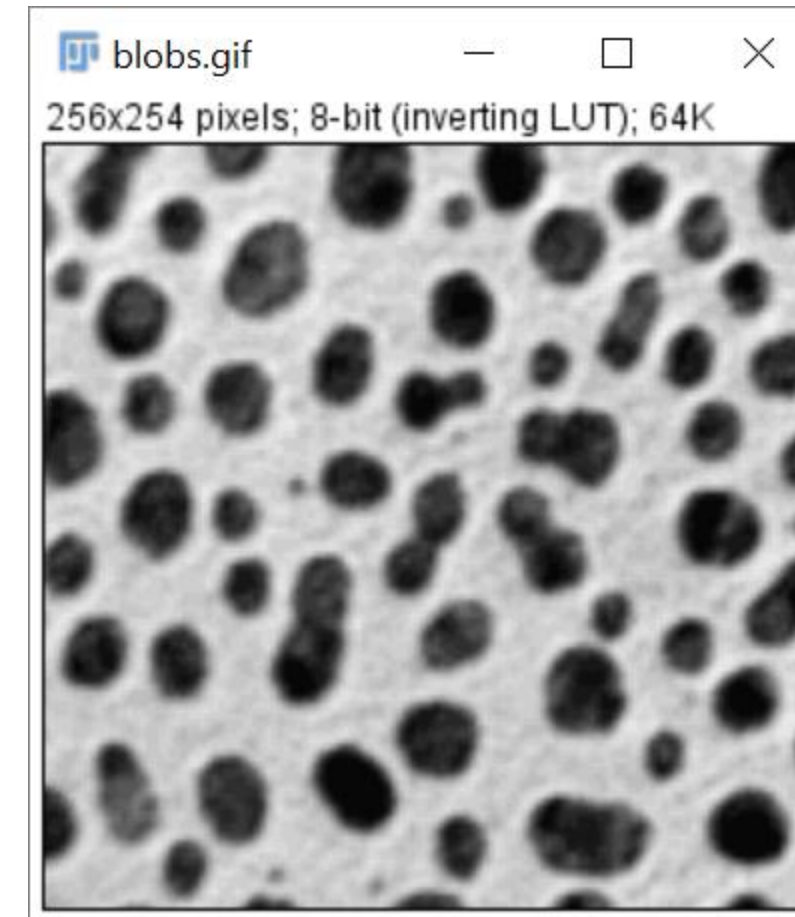
1. Open blobs.tif

1. Image > Lookup Table > Invert LUT

2. Process > Find Maxima

Select "Preview point selection"

Adapt Noise tolerance value so you have point per object



An Easy Example

1. Open blobs.tif

2. Image > Lookup Table > Invert LUT

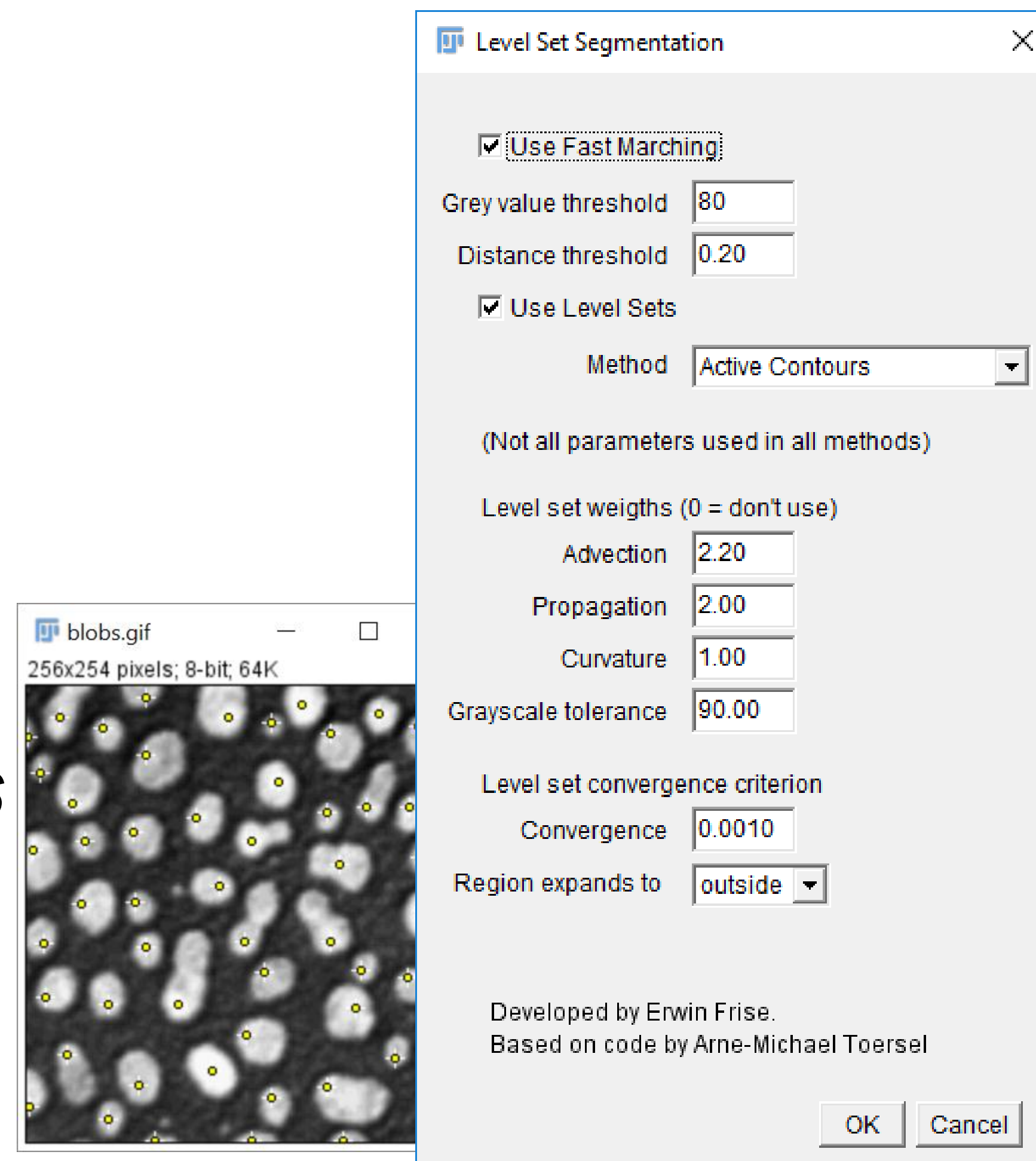
3. *Process > Find Maxima*

Select "Preview point selection"

Adapt Noise tolerance value so you have point per object

4. Launch *Plugins > Segmentation > Level Sets*

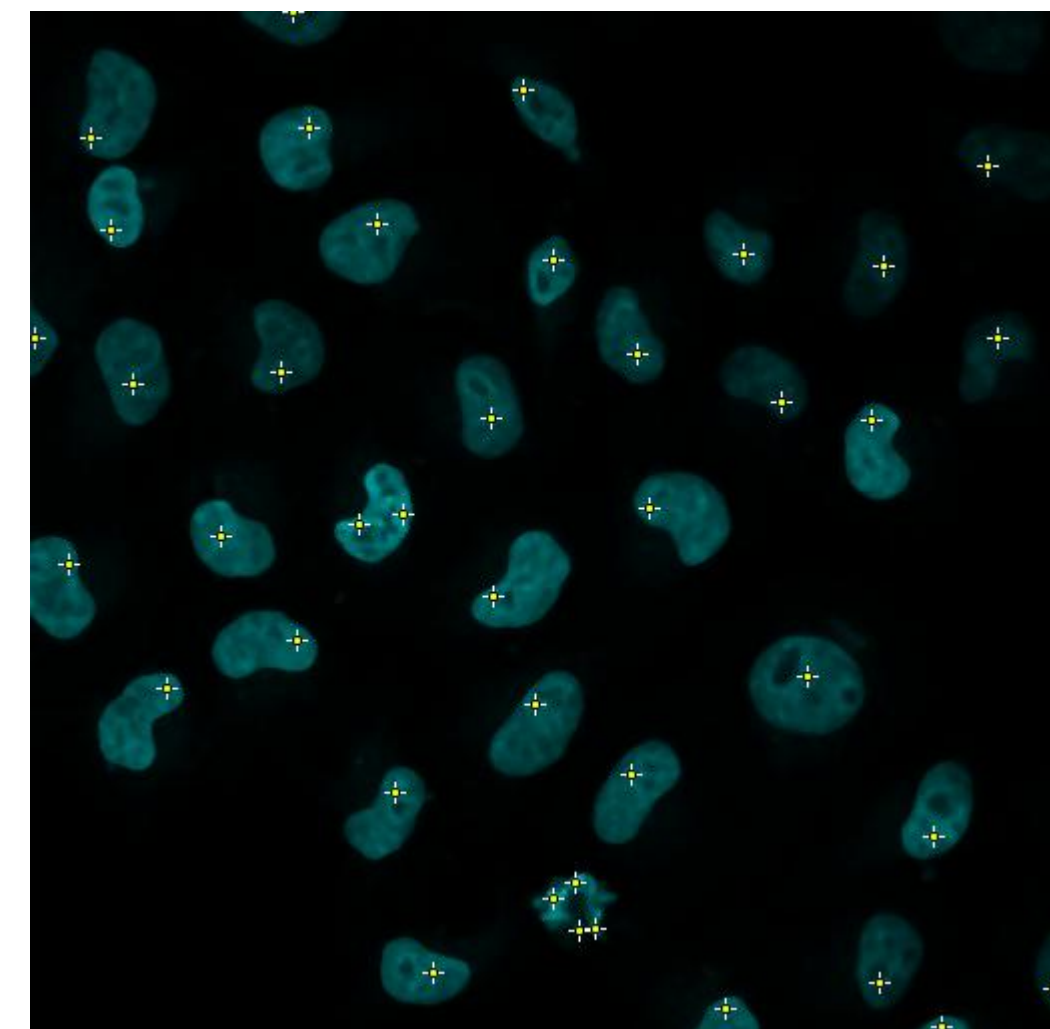
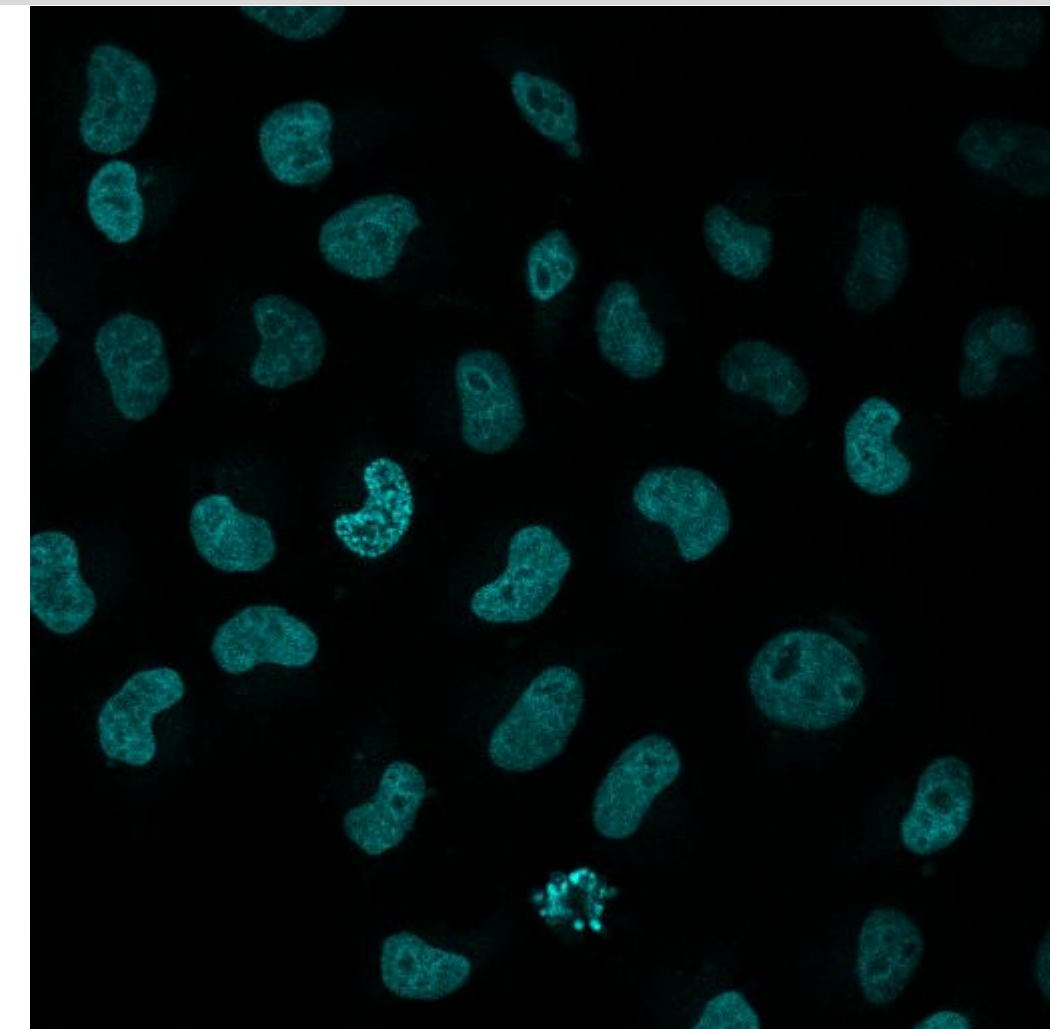
Use suggested Parameters



A Real Life Example

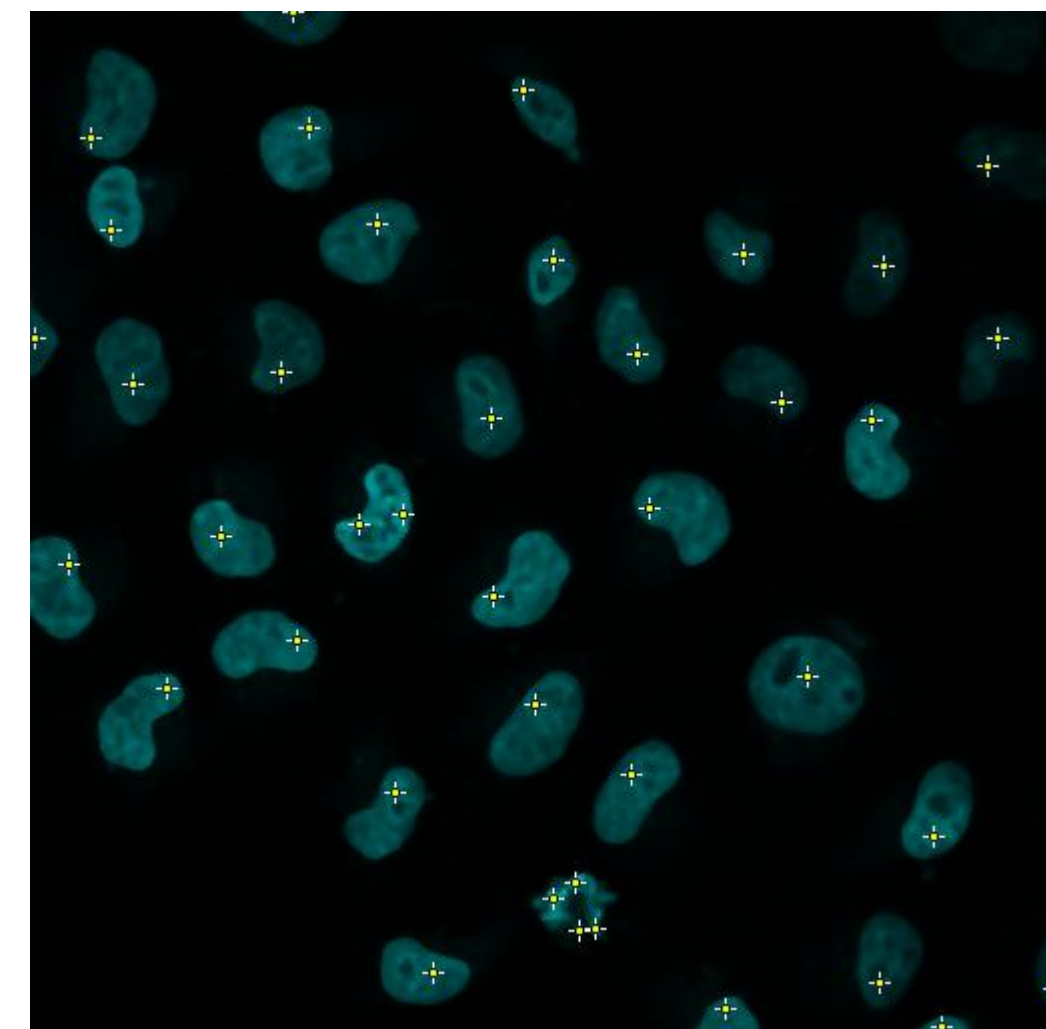
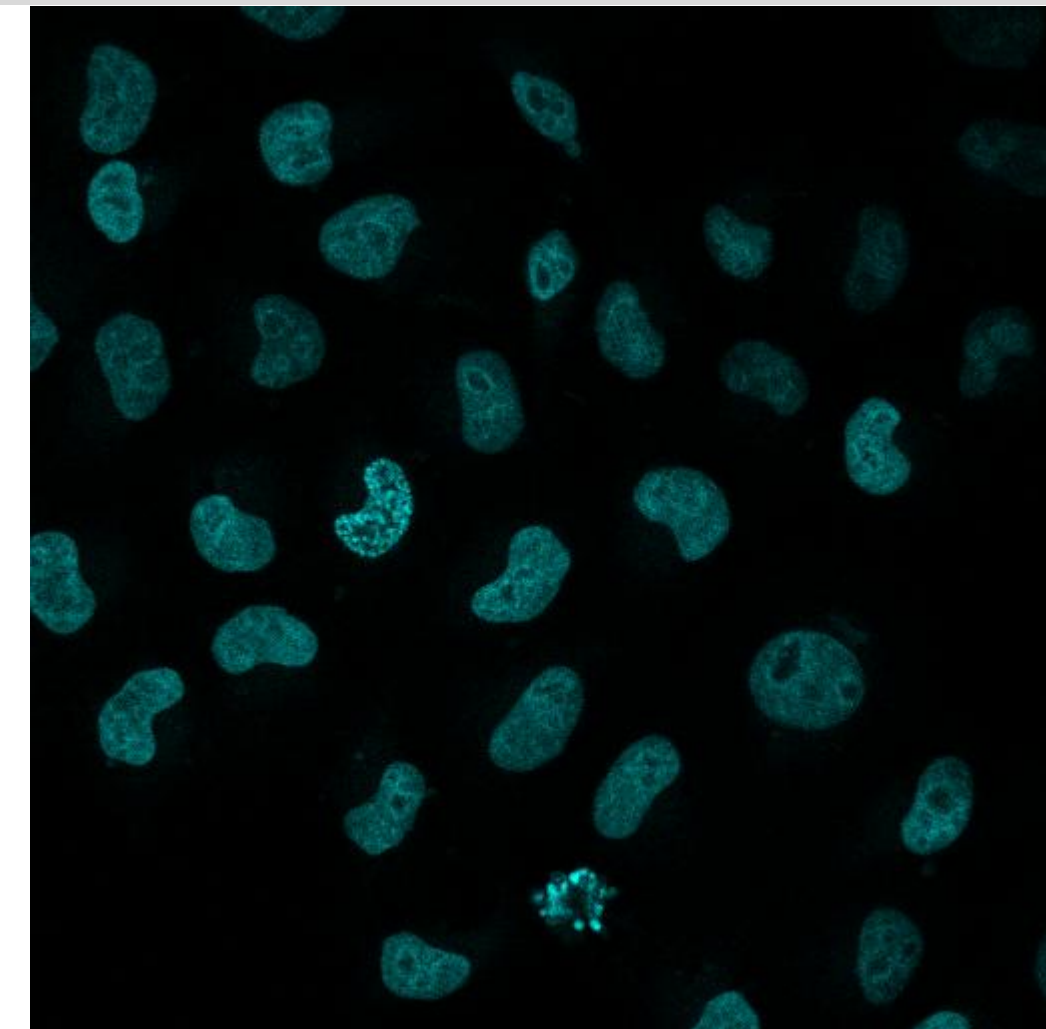
- From the HeLa cells dataset, open :
Edu+_RFP+_ (2).tif
- **Process > Find Maxima**

*You may have to filter your image a bit
(Gaussian ? Median ?)*



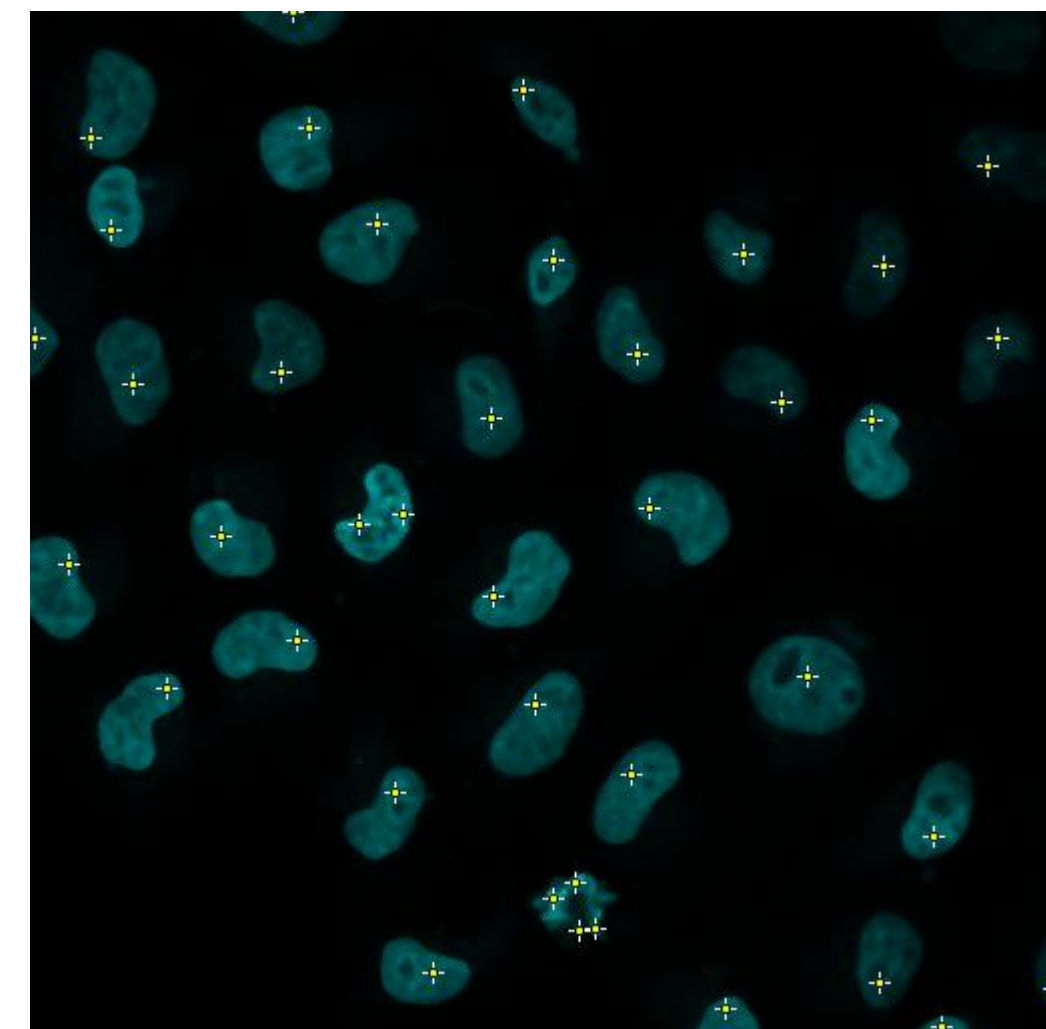
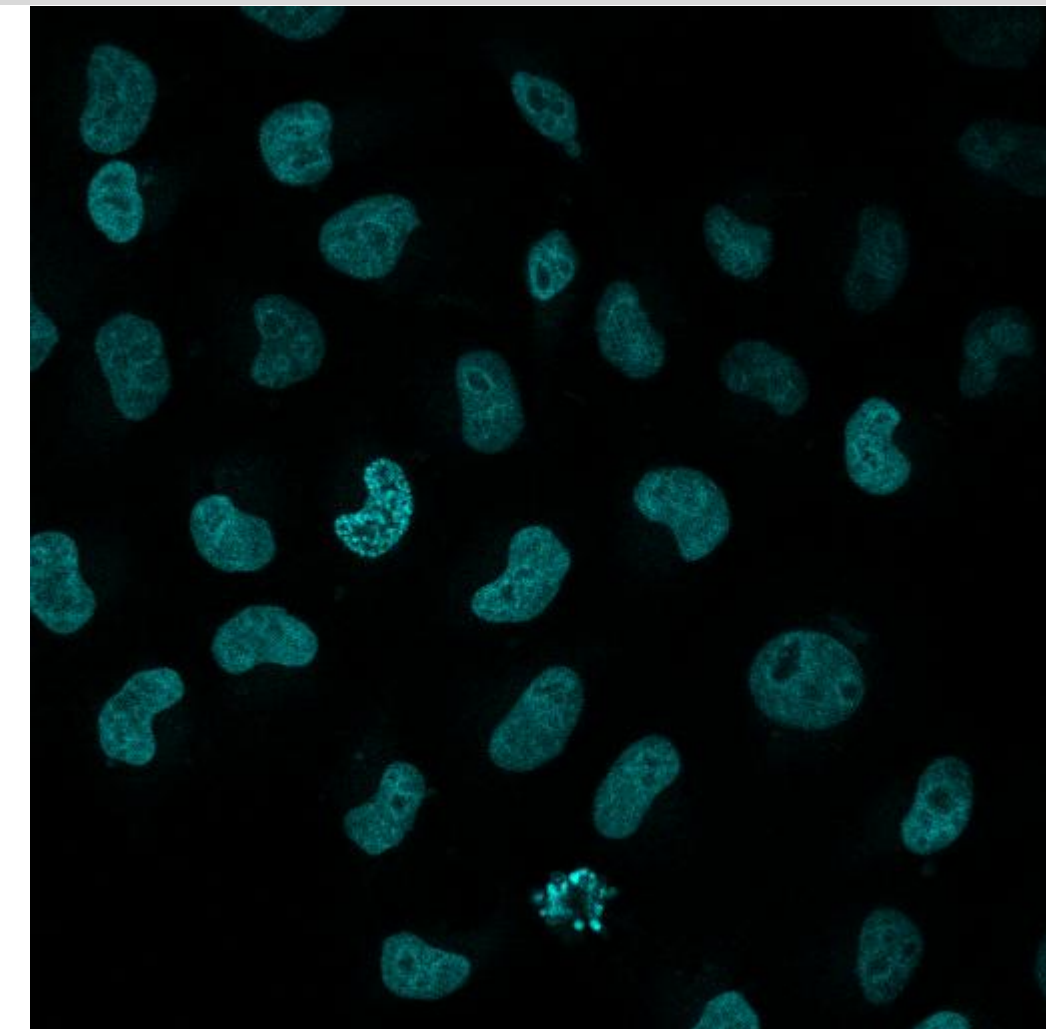
A Real Life Example

- From the HeLa cells dataset, open :
Edu+_RFP+_(2).tif
- ***Process > Find Maxima***
- ***Plugins > Segmentation > Level Sets***
 - *Re-use previous settings*



A Real Life Example

- From the HeLa cells dataset, open :
Edu+_RFP+_(2).tif
- ***Process > Find Maxima***
- ***Plugins > Segmentation > Level Sets***
 - *Re-use previous settings*
 - *If needed try to find "better" parameters*



A Real Life Example

- From the HeLa cells dataset, open :
Edu+_RFP+_(2).tif
- **Process > Find Maxima**
You may have to filter your image a bit
- **Plugins > Segmentation > Level Sets**
 - *Re-use previous settings*
 - *If needed try to find "better" parameters*
 - *Try to filter the image before starting level sets*

