Image processing and analysis

In charge : C.Klein

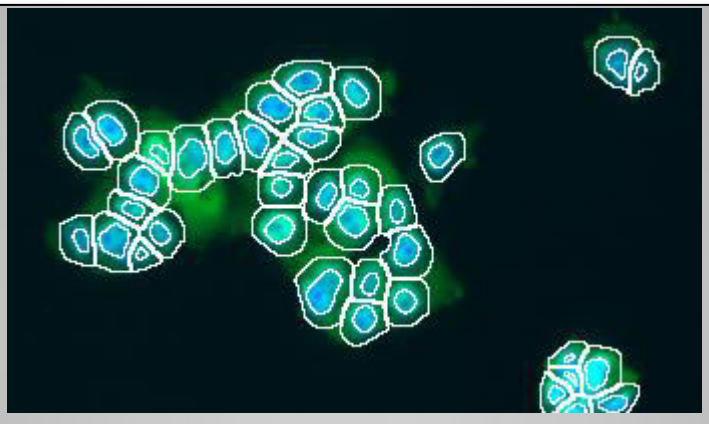
FIJI is just ImageJ

- Fiji is a free image processing and analysis software available for windows, macOS and Linux. It is an improved distribution of ImageJ.
  - Comes with ready to use plugins for microscopy image analysis.
  - Easy to install.
  - Automatic updates.
  - Comprehensive documentation.

- 2 days training course sessions of are organised twice a year by the CICC. To apply, please contact : christophe.klein@crc.jussieu.fr

- We can also provide individualized assistance and training on request.

- Upon request, we can build complete analysis solutions to answer your scientific question.



Nuclear Translocation of NFkB induced by TNF in MCF7 cells.
The mean fluorescence intensity of both nuclear and cytoplasmic NFkB (green), is automatically measured with an imageJ macro. The nucleo-cytoplamic ratio of NFkB is thus measured for each individual cell.
Images from the Broad Bioimage Benchmark Collection.

- For more complex analysis or specific applications we also provide customized assistance for the following free softwares :
  - ICY (object based colocalization, particule tracking).
  - Ilastik (image segmentation of histochemically stained tissue slices).
  - Cell profiler (high throughoutput projects).

- Measurements :
  - Region Of Interest.
  - Length, surface, volume.
  - Cell count.
  - Biomarker intensity.
  - Biomarker colocalisation.
  - Cell scoring.
  - Dots detection and counting.
  - Export results as .xls files

- Image processing :
  - Contrast enhancement
  - Noise reduction
  - File format conversion
  - Merging and splitting color layers
  - Image size adjustement
  - Croping
  - Scale bar
- Macro recording
- Batch processing