

Visualization of images and tracking

Background image :

The image or movie that will be shown, in grayscale. It is loaded with the button **Load image**, or it can be a merged image or movie (see below).

Formats allowed : .spe, .stk, .tif.

Trajectories :

Files created by the tracking programs. Can be .txt (with the same format than a .trc file) or .trc files.

Merged background :

Allows entering the files to merge, that can be single images or movies. Formats allowed : .spe, .stk, .tif.

DIC will be an image in grayscale, the other will have the chosen color. Contrast allows to change the intensity. To de-select a file, click in 'annuler' of the window to enter it.

After choosing the files, click on **Merge images** to perform the merging.

Display options for trajectories

The button **Trajectory color** allows to select the colors of the trajectories to plot. It is possible to differentiate localization and the trajectories that blink in a given image, using different colors. In movies, the color of the trajectory at each frame corresponds to the condition at this frame.

Ident molecules : gives the number of the trajectory and for movies, the number of points of the trajectory at the present frame (between brackets).

Mol # : 'all' means that all the trajectories will be plotted. It is possible to plot only one, entering here its number.

Localization : If the trajectories file has a column with the localization (.con.syn ; .deco.syn ; etc) the color of the trajectory will change with its localization.

File name : Writes the name of the file on the image.

MIA correction : option needed when using .trc files made by MIA, as the position is shifted 1x1 pixel with respect to the background image.

Plot trajectories : creates another figure with the background image plus all the tracked trajectories. This figure can be saved using the 'export' option on the figure window. Note : you can zoom here, and if you save the zoomed portion, you will have better resolution for the trajectories.

Save image : saves the present image as it appears on the screen.

Display options for movies

Frame number/Time/none : These options will show or not (none) the progression of the movie, in frame numbers or in time (ms). To convert frames in time, it is necessary to enter the **Acquis. Time** (time between frames).

Blinking : this option distinguishes with a different color the trajectory of an object that it is not detected at the present frame but it will be detected sometime after.

Arrows < > : Go one frame forward or backward.

To go to a particular frame, use the stream option putting the number of the wanted frame as first and last frame. Ex : First frame= 50 ; Last frame=50 ; Go : the image represented is the movie + trajectories at frame # 50.

Stream

This option will show the movie (+ trajectories) in stream, from the **First frame** to the **Last frame** entered. The **delay** is the time in ms of the pause between images. It has nothing to do with the original speed of the movie, it is only to slow down it if the frames pass too fast.

Go : to start the stream. Attention : it is not possible to stop it ! be careful with the last frame chosen.

Make avi : saves the stream as an .avi file, readable by any media player. Attention : .avi files can be huge...

As the final movie will be the images captured from the screen, do not activate any other window during the stream, or your movie will show the new active window instead of the stream !