Supplemental information for “TrackMate: an open and extensible platform for single-particle tracking”.

# Supplemental file.

## Supplemental File 1. TrackMate documentation.

This document compiles the full documentation of TrackMate over 156 pages. It is split in four parts:

* End user tutorials.
* Technical documentation.
* Interoperability with other software.
* Extending TrackMate with custom modules.

# Supplemental figure captions.

## Supplemental Figure 1.

Layout of all the steps in the automated interactive tracking process in TrackMate. Each step is represented by the panel it corresponds to in the GUI. Some choices triggered by the user – such as manual annotation of the data – result in skipping some steps. The GUI is presented here in forward order, but can be navigating back and forth.

## Supplemental Figure 2.

Example of a *C.elegans* lineage[[1]](#footnote-1) determined by TrackMate. The embryo was filmed using a laser power of 97.9 µW, corresponding to a light-dose per time-point of 2389 µJ.

# Supplemental movie captions.

## Supplemental Movie 1.

An excerpt from a *C.elegans* dataset for the study of phototoxicity. This movie features 3 synchronized movies of *C.elegans* embryos imaged on a LSCM, varying the laser excitation power. From left to right: 6.2 µW, 64.9 µW, 248 µW. The brightness and contrast are adjusted separately each frame to fill the display range.

## Supplemental Movie 2.

NEMO dots dynamics imaged at high illumination intensity. Individual dot tracks are represented as streak lines, with color encoding total displacement from 0 µm (blue) to 30 µm (red). Color scale is identical to Supplemental movie 3.

## Supplemental Movie 3.

NEMO dots dynamics imaged at low illumination intensity. Individual dot tracks are represented as streak lines, with color encoding total displacement from 0 µm (blue) to 30 µm (red). Color scale is identical to Supplemental movie 2.

## Supplemental Movie 4.

Semi-automatic tracking of clathrin-coated vesicles (CCV) in an Arabidopsis hypocotyl epidermal cell. Appearing CCVs were detected by eye, then tracked semi-automatically using TrackMate. CCVs present in first frame were not retained for analysis as they lead to an underestimation of their lifetime. Magenta circles represent CCV detections while persistent colored lines indicate single CCV tracks. Scale bar: 2 µm.

1. 10-03-17-3hours [↑](#footnote-ref-1)