

# References and example

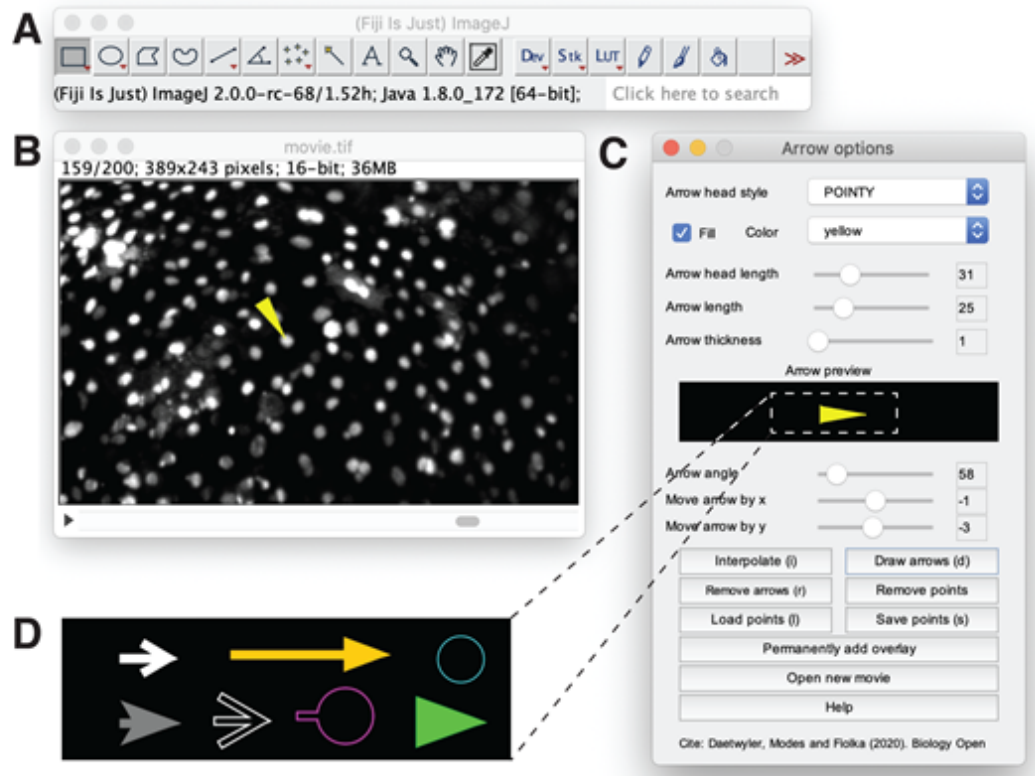
The Fiji plugin for annotating movies with custom arrows was developed by Stephan Daetwyler, Carl D.Modes and Reto Fiolka at UT SouthWestern.

To read about it and acknowledge the authors, please refer to [this publication](#).

## **ABSTRACT**

Annotation of time-lapse data provides an important tool to highlight dynamic processes. Particularly, arrows, circles and arrowheads are useful to pinpoint a specific process, stationary or evolving over time. Here, we describe a user-friendly Fiji plugin to facilitate annotation of movies with arrows, arrowheads and circles. The plugin also enables saving and loading of annotated tracks.

**Fig. 1.**



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**Graphical user interface.** The graphical user interface to add custom graphical symbols to a movie is run in (A) Fiji. When the rectangular selection tool in the Fiji menu bar (A) is selected, the user can interact with the movie (B) to generate a trajectory of the process of interest. In the arrow options panel (C), the user chooses the style (shape), filling and color of the added graphical symbol. The current graphical symbol specified by the selected arrow head style, head length, length, thickness, fill status and color is previewed in an 'Arrow preview' field. The user can further determine the angle, and position (x and y) of the selected graphical symbol relative to the selected trajectory. Moreover, buttons on the arrow options panel help the user to navigate the annotation process and allow the user to open a new movie to annotate. (D) Selection of possible designs for the graphical symbol are obtained by changing the parameters in the arrow options panel.

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