

Screen Capture Guidelines

JoVE requires screen capture videos to demonstrate software usage in your protocol. You will create the screen capture video files and your scriptwriter will conform the script narration to match.

Create screen capture videos:

1. Download, install, and test the appropriate software, see below for more details

Before you begin recording, clean up your desktops, close unnecessary tabs, and clear your screen of any personal information.

2. Record screen capture videos for each step that you plan to include in your protocol video.
Name the files using your 5-digit manuscript number and according to the order of appearance: XXXXX_screenshot_1, XXXXX_screenshot_2, etc.
3. As a separate document, prepare a screenshot summary listing all screen captures in order of appearance with timecodes corresponding to the shots in your script (shots are numbered with 3 digits, e.g. 2.1.1, 2.1.2, etc). **Note that each shot will be on screen for 10 - 30 seconds, depending on the length of narration.**
4. Upload the video files and screen capture summary to your project page (see link in your script). You can upload files up to 2 GB.

Contact our Content Manager, **Utkarsh Khare** (utkarsh.khare@jove.com), for technical problems, troubleshooting, or additional upload options.

Recommended software:

Windows and Linux: OBS Studio

- 1) To download this free screen capture program, go to <https://obsproject.com/>
- 2) JoVE's tutorial for installing and using OBS Studio can be viewed at the following link:
<https://review.jove.com/v/5848/screen-capture-instructions-for-authors?status=a7854k>

Mac: QuickTime

- 1) If not already installed, download and install the software:
<https://www.apple.com/support/mac-apps/quicktime/>
- 2) Launch QuickTime
- 3) Go to File > New Screen Recording
- 4) Go to the white downward facing arrow and select “Show Mouse Clicks in Recording”
- 5) Click the red button and follow the instructions that appear on the screen
- 6) Click to record the full screen
- 7) To stop recording, click the stop button on the menu bar at the very top of the screen
- 8) Save the file

Sample Screenshot Summary:

Note the file naming format and examples of timecodes

- **12345_screenshot_1.mp4**
 - 4.1.1 (Open ImageJ and import data as TIFF stack files) **00:00-00:20**
 - 4.1.2 (Click Analyze | Set Scale to calibrate the .stk files according to microscope settings, working in pxl/ μ m) **00:21-00:31**
 - 4.1.3 (Click Plugins | Tracking | Manual Tracking to open Image J manual cell tracking plugin. To begin cell tracking, select Add track) **00:32-00:40**
 - 4.1.4 (Track cells through all frames of time-lapse movies, using the nucleus as a reference point) **00:41-00:45**
- **12345_screenshot_2.mp4**
 - 4.2.2 (Open the migration software, click the Import Data tab to import the cell tracking data as a .txt file) **00:00-00:11**
 - 4.2.3 (Under Datasets | Initialization, select the number of slices or frames to be analyzed and set the XY calibration and time interval between frames) **00:12-00:17**
 - 4.2.4 (Select the Plot Data symbol to form trajectory plots and select the Statistics symbol to quantify distance and speed measures) **00:17-00:27**