Quantitative Fluorescent Speckle Microscopy

Readme

LCCB

November 12, 2012

Contents

General information

This package contains the necessary files to run the Matlab implementation of the fluorescent speckle algorithm. The version of the software corresponds to the protocols paper

Quantitative Fluorescent Speckle Microscopy (QFSM) to Measure Actin Dynamics
M. C. Mendoza, S. Besson & G. Danuser, Current Protocols in Cytometry 62:2.18.1–2.18.26 (2012)

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Features

Version 1.0.0 (November 2012)

- Initial release of the QFSM package.

Files in this distribution

You should get the following files

- A readme file,

- A copy of the GPL license,

- All the code necessary to run QFSM under Matlab,

- A folder containing the PDF documentation files,

- A folder containing the pre-compiled MEX-files,

- A folder containing the icons for the graphical interface,

- A folder containing the Bio-Formats 4.4.4 Matlab toolbox for reading microscopy images (https://www.openmicroscopy.org/s including loci_tools.jar.

Installation

Configuration

The program has been tested using the following configuration(s):

- Operating systems: Ubuntu 10.04 64-bit, Mac OS X 10.7.4 64-bit, Windows 7 64-bit.

- Matlab version: 2011a and above

- Matlab toolboxes: to run ALL components of the software, the following Matlab toolboxes MUST be installed:

  - Image Processing Toolbox
  - Statistics Toolbox
  - Curve Fitting Toolbox.

Installation

Below are the instructions to install QFSM:

1. Download the code from the LCCB website http://lccb.hms.harvard.edu/software.html

2. Uncompress the zip file into a sub-directory of the default Matlab directory (the directory where Matlab starts).

3. Add this new directory to the Matlab path. To do so, select (File ▷ Set path...) then click on "Add with subfolders..." and choose the folder you extracted all the files to in step 1.

Error report

IMPORTANT: we will do our best to remove severe bugs, but cannot undertake to correct (or acknowledge) all reports.

If you want to report a bug or error, please include the version of the operating system and the architecture, the version of MATLAB, the error message reported by Matlab and a comprehensive description of the steps that led to the error. All reports should be sent to sebastien_besson@hms.harvard.edu.