Instructions - Installation

- **STAND-ALONE INSTALLATION**
  M-track can be run using the available stand-alone versions for Linux and Microsoft Windows platforms. Two executable stand-alone versions of M-Track are currently available: v1r1 allows the user to visualize the orientation of the mouse body, v1r2 does not have this feature.

  1. Linux   M-Track_LIN_v1r1   or   M-Track_LIN_v1r2
  2. Microsoft Windows   M-Track_WIN_v1r1   or   M-Track_WIN_v1r2

- **INSTALLATION FROM SOURCE CODE**
  M-Track can be run from source code by executing MTrack_Qt.py using Python 2.7. The following is a list of the required libraries and packages.

  Required Libraries
  1. Python 2.7
  2. OpenCV 3.0
  3. PyQt 4.8
  4. Numpy 1.10.4

  We recommend to install these libraries from the Anaconda open data science platform (https://www.continuum.io/downloads)

  Required packages
  1. MTrack_Qt.py   % main function, GUI
  2. MTrack.py   % include tracking functionality
  3. ColorLabel.py   % display color selector image
  4. DisplayLabel.py   % display and cage drawing
  5. InfoDialog.py   % display info messages
  6. ROILabel.py   % display and ROI drawing

  Linux
  1. Install Anaconda
     (see https://docs.continuum.io/anaconda/install)
     bash ~/Downloads/Anaconda2-4.0.0-MacOSX-x86_64.sh

  2. Install PyQt and Numpy
     conda install pyqt
     conda install numpy

  3. Install OpenCV 3.0
     (see http://rodrigoberriel.com/2014/10/installing-opencv-3-0-0-on-ubuntu-14-04/)
     conda install -c trax opencv3=3.0.0

  Mac OS X
  1. Install Anaconda
     (see https://www.continuum.io/downloads)

2. Install PyQt and Numpy
   conda install pyqt
   conda install numpy

3. Install OpenCV 3.0
   brew install opencv3.0
   echo /usr/local/opt/opencv3/lib/python2.7/site-packages >>
   /Users/Yourpath/anaconda/lib/python2.7/site-packages/opencv3.pth

Microsoft Windows
1. Install OpenCV 3.0 from http://opencv.org/downloads.html
   copy C:\opencv3\build\python\2.7\x64\cv2.pyd c:\Anaconda\Lib\site-packages\

2. Copy the opencv_ffmpeg300_64.dll file from C:\Applications\opencv\build\x64\vc10\bin into the python path (mine is at C:\Users\lin\Anaconda)

3. Install PyQt and Numpy from the command window
   conda install pyqt
   conda install numpy

Support
If you experience any problem, please contact Annalisa Scimemi (scimemia@gmail.com; ascimemi@albany.edu)