

Using ImageJ with OMERO

This guide assumes you have never installed ImageJ before.

- 1 Download the latest version of ImageJ for your platform from the website:

<http://rsbweb.nih.gov/ij/download.html>

home | news | docs | download | plugins | resources | list | links

Download

Platform Independent
 To install ImageJ 1.46 on a computer with Java pre-installed, or to upgrade to the latest full distribution (including macros, plugins and LUTs), download [ij146.zip](#) (3.2MB) and extract the ImageJ directory. Use the *Help>Update ImageJ* command to upgrade to newer versions.

Mac OS X
 Download ImageJ 1.46 (5.7MB) as a double-clickable Mac OS X application. Includes ImageJ64, which uses Java 1.6 in 64-bit mode on Intel Macs running OS X 10.5 or later. ([Instructions](#))

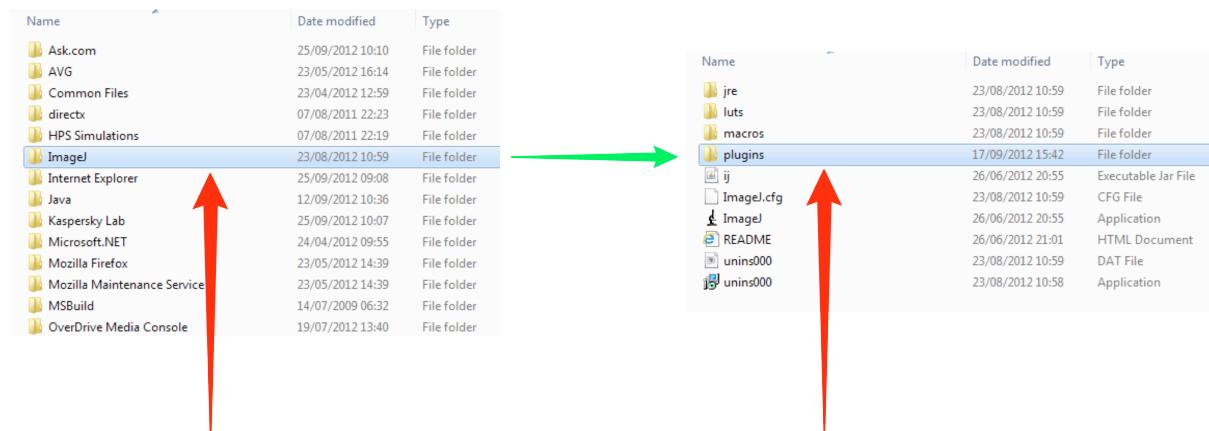
Linux
 Download ImageJ 1.46 bundled with 32-bit Java (46MB) or with 64-bit Java (40MB). Both versions include Java 1.6.0_24 from Sun and the ImageJ source code. ([Instructions](#))

Windows
 Download ImageJ 1.46 bundled with 32-bit Java 1.6.0_20 (28MB), with 64-bit Java 1.6.0_20 (24MB; requires 64-bit Windows) or without Java (3MB). ([Instructions](#))

Documentation
 Tiago Ferreira's comprehensive [ImageJ User Guide](#) is available as an 8MB PDF document and as a [ZIP archive](#). The online JavaDoc API documentation is also available as a [ZIP archive](#).

- 2 On Windows run the set-up programme (either from the Downloads folder or when prompted by download Wizard) and follow instructions to install ImageJ.
 On a Mac, extract the .zip archive and drag the ImageJ folder to your applications folder.
 On Linux extract the .gz archive and double click the “run” script.
 Further install instructions can be found on the ImageJ web site (above).

- 3 Once installed, the ImageJ folder (typically C:/Program Files/ImageJ on Windows) contains the programme and a number of subfolders, one of which is **plugins**.
 To use OMERO with ImageJ, two plugins need to be installed in this folder:
 loci_tools and OMERO.insight-ij.



Name	Date modified	Type
Ask.com	25/09/2012 10:10	File folder
AVG	23/05/2012 16:14	File folder
Common Files	23/04/2012 12:59	File folder
directx	07/08/2011 22:23	File folder
HPS Simulations	07/08/2011 22:19	File folder
ImageJ	23/08/2012 10:59	File folder
Internet Explorer	25/09/2012 09:08	File folder
Java	12/09/2012 10:36	File folder
Kaspersky Lab	25/09/2012 10:07	File folder
Microsoft.NET	24/04/2012 09:55	File folder
Mozilla Firefox	23/05/2012 14:39	File folder
Mozilla Maintenance Service	23/05/2012 14:39	File folder
MSBuild	14/07/2009 06:32	File folder
OverDrive Media Console	19/07/2012 13:40	File folder

Name	Date modified	Type
jre	23/08/2012 10:59	File folder
luts	23/08/2012 10:59	File folder
macros	23/08/2012 10:59	File folder
plugins	17/09/2012 15:42	File folder
ij	26/06/2012 20:55	Executable Jar File
ImageJ.cfg	23/08/2012 10:59	CFG File
ImageJ	26/06/2012 20:55	Application
README	26/06/2012 21:01	HTML Document
unins000	23/08/2012 10:59	DAT File
unins000	23/08/2012 10:58	Application

4 Download the latest version of the LOCI tools plugin from:

<http://openmicroscopy.org/latest/loci-tools-jar>

Save or move the downloaded file into the **ImageJ > plugins** folder.



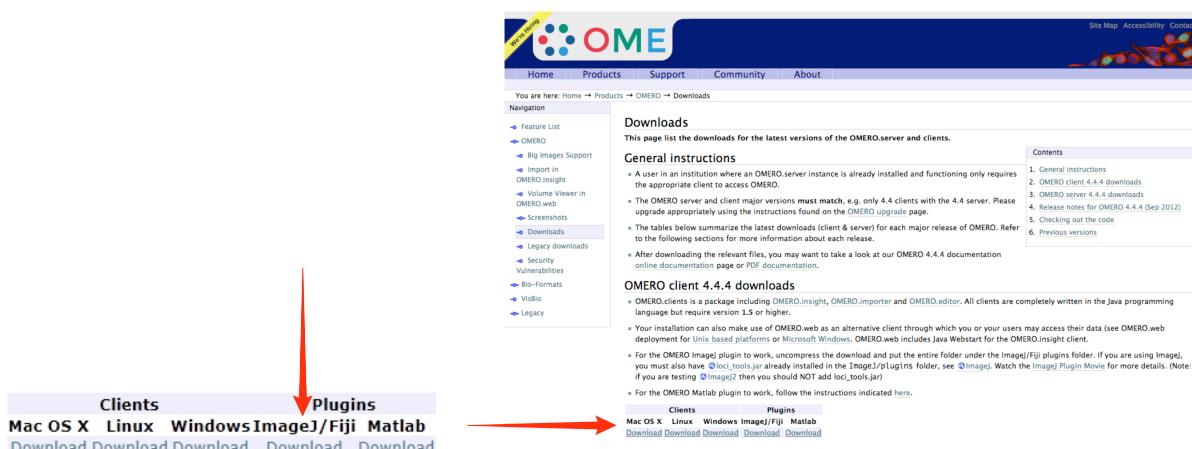
Name	Date modified	Type
3D	23/08/2012 10:59	File folder
Analyze	23/08/2012 10:59	File folder
Examples	23/08/2012 10:59	File folder
Filters	23/08/2012 10:59	File folder
Graphics	23/08/2012 10:59	File folder
Input-Output	23/08/2012 10:59	File folder
jars	23/08/2012 10:59	File folder
Macros	23/08/2012 10:59	File folder
Stacks	23/08/2012 10:59	File folder
Tools	23/08/2012 10:59	File folder
loci_tools	22/08/2012 21:40	Executable Jar File
README	26/06/2012 21:27	Text Document

Further details on the download are at:

<http://www.openmicroscopy.org/site/products/bio-formats/bio-formats-downloads>

5 Download the latest version of the OMERO.insight-ij plugin from:

<http://www.openmicroscopy.org/site/products/omero/downloads>



The screenshot shows the OMERO website's navigation bar with links for Home, Products, Support, Community, and About. Below this, a breadcrumb trail shows the current location: You are here: Home → Products → OMERO → Downloads. The main content area is titled "Downloads" and contains instructions for users. It lists several download categories under "General instructions" and "OMERO client 4.4.4 downloads". At the bottom, there are two "Clients" menus: one for "Clients" (Mac OS X, Linux, Windows, ImageJ/Fiji, Matlab) and one for "Plugins" (Clients, Plugins). Red arrows point from both "Plugins" links towards the "Downloads" menu.

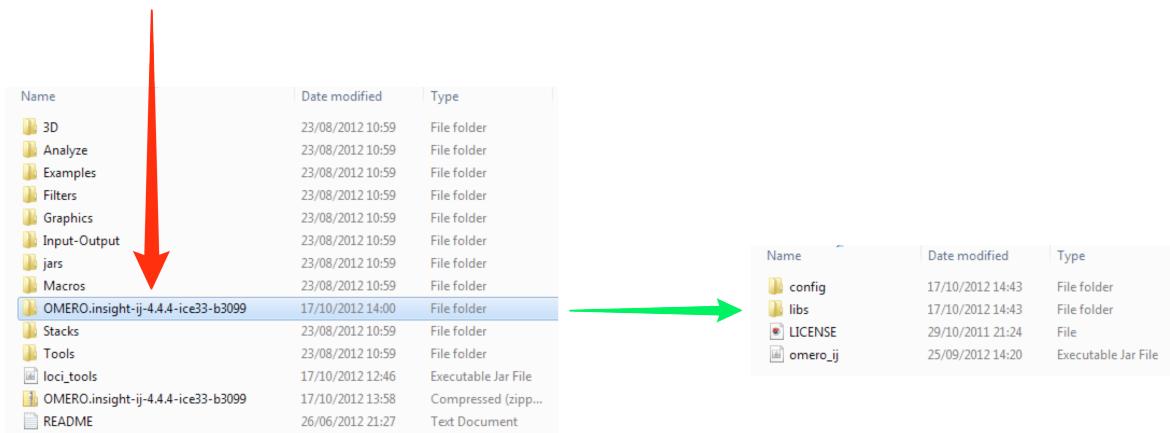
6 Copy or move the .zip archive to the **ImageJ > plugins** folder.

Extract the archive into the plugins folder to give a folder named “**OMERO.insight-ij-4.4.xxx**” where xxx is the version number/ID.

The OMERO.insight-ij plugin consists of a folder with a number of components inside. The complete folder is left in the **ImageJ > plugins** folder.

Important Note: with some versions of Windows unzipping programmes, a double folder enclosing the plugin is created. It is worth checking to make sure this has not happened. If it has, copy the inner

OMERO.insight-ij-4.4.xxx folder into the **ImageJ > plugins** folder.



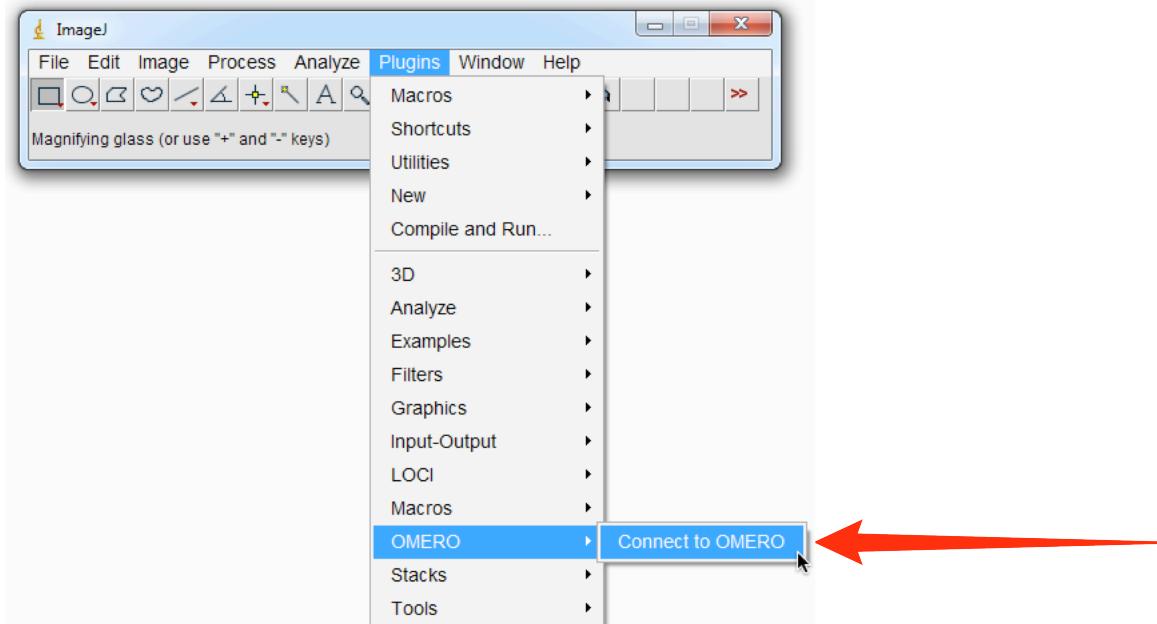
The **OMERO.insight-ij-4.4.xxx** .zip archive can be left in the plugins folder or deleted.

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Launch the ImageJ application and click on the **Plugins** menu.

Select **OMERO > Connect to OMERO**.

A version of OMERO.insight will open and can be used as normal.



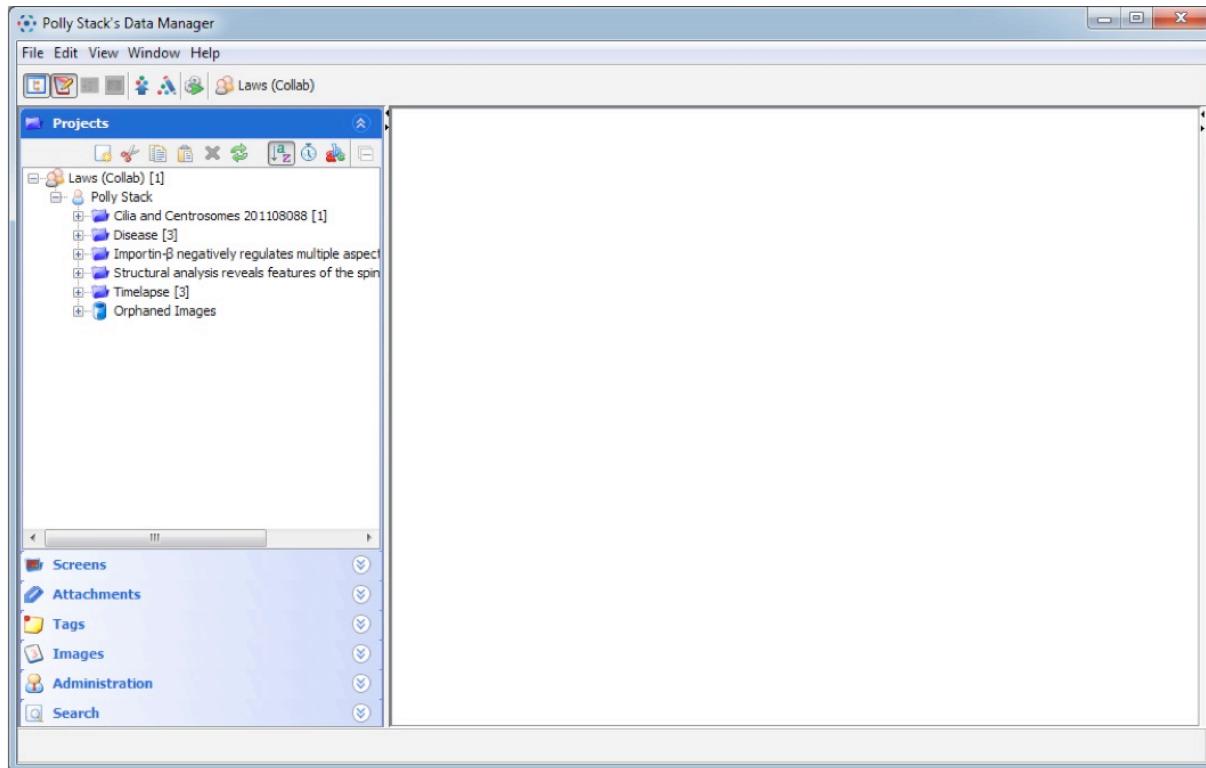
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- As ImageJ needs to load the plugin software, it can take a minute or two for the OMERO login screen to appear, and then another two or three minutes for the progress bar to start moving and complete.
 Enter your OMERO server address (if needed) and **Username** and **Password**.
 Click **Login**.



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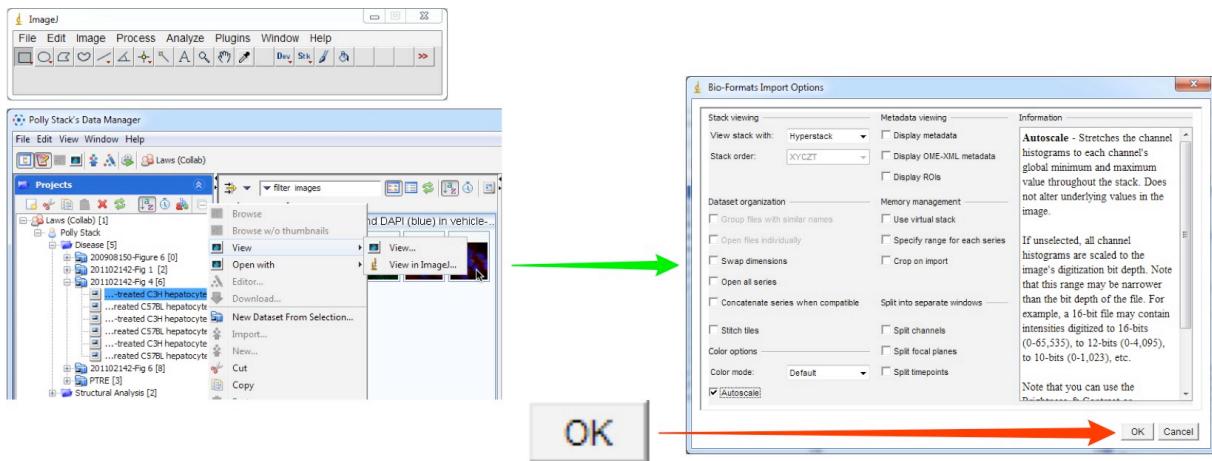
- You will then be taken to the OMERO.insight Data Manager screen.



Note: If you quit OMERO.insight and then connect again during the same ImageJ session, logging in and launching the OMERO plugin will be much quicker. So if you intend using the OMERO plugin through ImageJ again soon, it may be worth leaving your ImageJ application running.

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- Double click on the image in the data tree or selecting the image and **View > View in ImageJ** in the contextual menu.
 The Bioformats Import Options window opens.
 Select parameters and click **OK**.



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 The Bioformats Import Options window opens.

