

## Using ImageJ with OMERO

This initial section assumes you have never installed ImageJ or Fiji before and covers both OMERO version 4.4.x and version 5.0.x.

You can tell what version your OMERO is from the fine print at the bottom of the login screen.



Upgrading from OMERO version 4.4.x to OMERO version 5.0.x is dealt with in a later section.

In order to connect to an OMERO server and use the data stored there directly in ImageJ and Fiji, plugins have to be installed. The following instructions guide you through the download and installation and use of ImageJ, Fiji and the plugins.

### Downloading and installing ImageJ

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 1.47 on a computer with Java pre-installed, or to upgrade to the latest full distribution (including macros, plugins and LUTs), download [ij147.zip](#) (3.2MB) and extract the ImageJ directory. Use the [Help>Update ImageJ](#) command to upgrade to newer versions.

**Mac OS X**  
 Download [ImageJ 1.47](#) (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 1.47 bundled with [64-bit Java](#) (40MB) or with [32-bit Java](#) (46MB). Both versions include Java 1.6.0\_24 from Oracle. ([Instructions](#))

**Windows**  
 Download ImageJ 1.47 bundled with [64-bit Java](#) (25MB; requires 64-bit Windows), [32-bit Java](#) (28MB) or without Java (5MB). ([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, and security prompts as appropriate, to install ImageJ.

On 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).

## Downloading and Installing Fiji

Fiji (Fiji is Just ImageJ) is a distribution of ImageJ together with Java, Java3D and a lot of plugins organized into a coherent menu structure.

1

Download the latest version of Fiji for your platform from the website:

<http://fiji.sc/Downloads>



The screenshot shows the 'Downloads' section of the Fiji website. It includes a note about the authoritative site being <http://fiji.sc/>. It lists download links for Windows (32-bit and 64-bit), OS X (PowerPC, Intel), Linux (32-bit and 64-bit), Java, and All platforms (no JREs). There are also sections for Continuous release and Line version downloads.

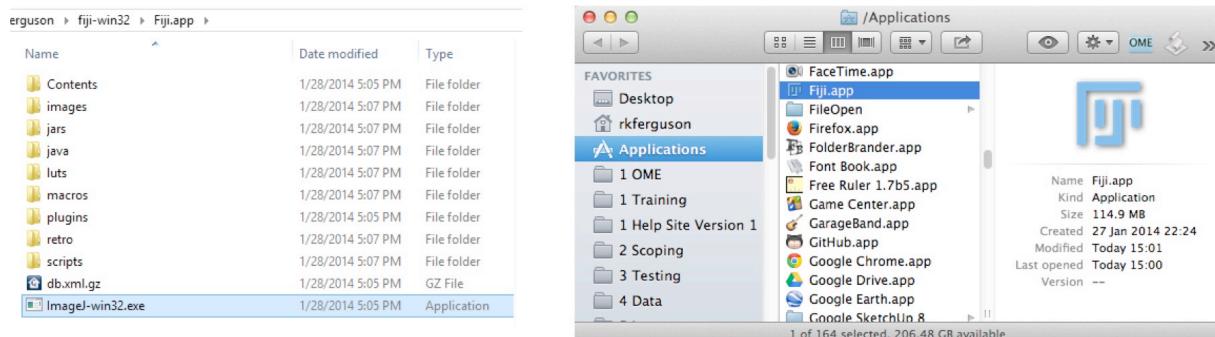
2

The Fiji downloads page includes installation instructions.

On Windows it is recommended you install the Fiji executable within your user space for example: `C:\Users\[ your name]\Fiji.app`, not in the normal `C:\Programs` directory, otherwise future updating may fail.  
 On Mac, mount the .dmg and drag the Fiji folder to your applications folder.  
 On Linux extract the .gz archive and double click the “run” script.

3

On Windows, depending on how the downloaded archive was expanded, the ImageJ executable can appear one level deeper in the Fiji.app folder than in ImageJ.  
 On Mac Fiji.app appears as a single .app.



## Installing Plugins for ImageJ and Fiji

The location for the plugins in ImageJ and Fiji are essentially the same, with the following differences in gaining access to them:

- on Windows, Fiji sometimes has an additional level of hierarchy, depending on how the downloaded archive was expanded, for example:

**ImageJ - Windows (32 bit):**

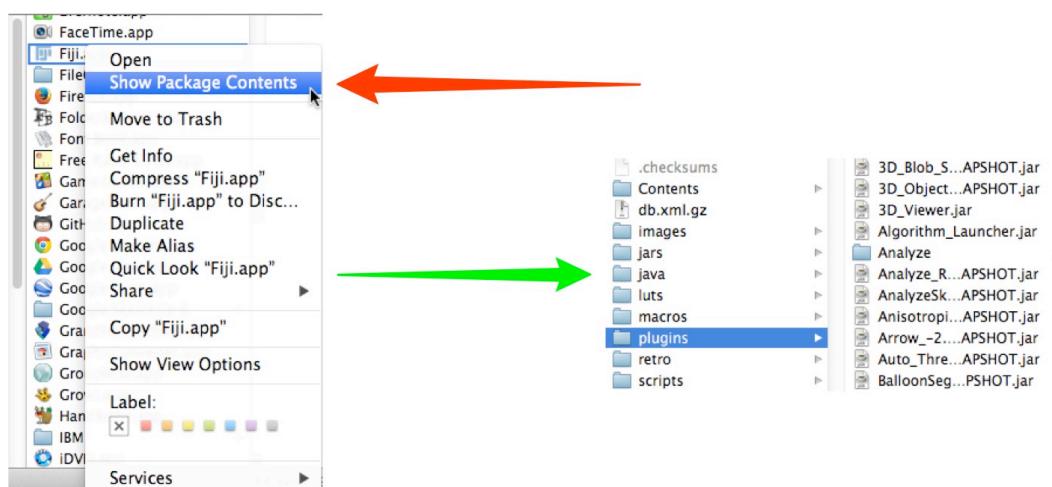
```
Local Disk (C:) > Program Files (x86) > ImageJ > plugins
```

**Fiji - Windows (32 bit):**

```
Local Disk (C:) > username > Fiji-win32 > Fiji.app > plugins
```

<p>Computer &gt; Local Disk (C:) &gt; Program Files (x86) &gt; ImageJ &gt;</p> <table border="1"> <thead> <tr> <th>Name</th> <th>Date modified</th> <th>Type</th> </tr> </thead> <tbody> <tr><td>jre</td><td>1/28/2014 10:44 AM</td><td>File folder</td></tr> <tr><td>luts</td><td>1/28/2014 10:44 AM</td><td>File folder</td></tr> <tr><td>macros</td><td>1/28/2014 10:44 AM</td><td>File folder</td></tr> <tr style="background-color: #e0f2e0;"><td>plugins</td><td>1/28/2014 11:23 AM</td><td>File folder</td></tr> <tr><td>ij.jar</td><td>7/3/2013 5:51 PM</td><td>Executable Jar File</td></tr> <tr><td>ImageJ.cfg</td><td>1/28/2014 10:44 AM</td><td>CFG File</td></tr> <tr><td>ImageJ.exe</td><td>6/7/2013 7:17 PM</td><td>Application</td></tr> <tr><td>README.html</td><td>6/10/2013 8:51 PM</td><td>HTML Document</td></tr> <tr><td>unins000.dat</td><td>1/28/2014 10:44 AM</td><td>DAT File</td></tr> <tr><td>unins000.exe</td><td>1/28/2014 10:43 AM</td><td>Application</td></tr> </tbody> </table>	Name	Date modified	Type	jre	1/28/2014 10:44 AM	File folder	luts	1/28/2014 10:44 AM	File folder	macros	1/28/2014 10:44 AM	File folder	plugins	1/28/2014 11:23 AM	File folder	ij.jar	7/3/2013 5:51 PM	Executable Jar File	ImageJ.cfg	1/28/2014 10:44 AM	CFG File	ImageJ.exe	6/7/2013 7:17 PM	Application	README.html	6/10/2013 8:51 PM	HTML Document	unins000.dat	1/28/2014 10:44 AM	DAT File	unins000.exe	1/28/2014 10:43 AM	Application	<p>Ergerson &gt; fiji-win32 &gt; Fiji.app</p> <table border="1"> <thead> <tr> <th>Name</th> <th>Date modified</th> <th>Type</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Contents</td><td>2/7/2014 5:44 PM</td><td>File folder</td><td></td></tr> <tr><td>images</td><td>2/7/2014 5:45 PM</td><td>File folder</td><td></td></tr> <tr><td>jars</td><td>2/7/2014 5:50 PM</td><td>File folder</td><td></td></tr> <tr><td>java</td><td>2/7/2014 5:45 PM</td><td>File folder</td><td></td></tr> <tr><td>luts</td><td>2/7/2014 5:45 PM</td><td>File folder</td><td></td></tr> <tr><td>macros</td><td>2/7/2014 5:45 PM</td><td>File folder</td><td></td></tr> <tr style="background-color: #e0f2e0;"><td>plugins</td><td>2/7/2014 5:50 PM</td><td>File folder</td><td></td></tr> <tr><td>retro</td><td>2/7/2014 5:45 PM</td><td>File folder</td><td></td></tr> <tr><td>scripts</td><td>2/7/2014 5:45 PM</td><td>File folder</td><td></td></tr> <tr><td>.checksums</td><td>2/7/2014 5:53 PM</td><td>CHECKSUMS File</td><td>93 KB</td></tr> <tr><td>db.xml.gz</td><td>2/7/2014 5:54 PM</td><td>GZ File</td><td>157 KB</td></tr> <tr><td>ImageJ-win32.exe</td><td>2/7/2014 5:44 PM</td><td>Application</td><td>129 KB</td></tr> </tbody> </table>	Name	Date modified	Type	Size	Contents	2/7/2014 5:44 PM	File folder		images	2/7/2014 5:45 PM	File folder		jars	2/7/2014 5:50 PM	File folder		java	2/7/2014 5:45 PM	File folder		luts	2/7/2014 5:45 PM	File folder		macros	2/7/2014 5:45 PM	File folder		plugins	2/7/2014 5:50 PM	File folder		retro	2/7/2014 5:45 PM	File folder		scripts	2/7/2014 5:45 PM	File folder		.checksums	2/7/2014 5:53 PM	CHECKSUMS File	93 KB	db.xml.gz	2/7/2014 5:54 PM	GZ File	157 KB	ImageJ-win32.exe	2/7/2014 5:44 PM	Application	129 KB
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- on Mac, Fiji is a .app package, so to see the plugins folder you must right-click the Fiji.app and select **Show Package Contents**:



**Note:** After installing or upgrading plugins, you need to restart ImageJ or Fiji to be able to use the plugins.

**Note:** There are some differences between ImageJ and Fiji, and for OMERO version 4.4.x and OMERO version 5.0.x regarding which plugins are needed. These are outlined below.

### Using ImageJ with OMERO version 4.4.x

Two plugins are required:

- loci\_tools.jar
- OMERO.insight-ij

**1**

Download the latest 4.4.x version of the **LOCI Tools** plugin from:

<http://downloads.openmicroscopy.org/latest/bio-formats4>

Check there is a “Bio-formats 4.4.x Downloads” heading on the page.



#### Bio-Formats 4.4.10 Downloads

[Tools](#) | [Components](#) | [Code](#) | [Legacy](#)

- Full documentation is available as [web documentation](#) or [PDF documentation](#).
- The Bio-Formats API documentation is available to read on the web [here](#).
- Internet Explorer sometimes renames JAR files to ZIP (e.g., loci\_tools.jar becomes loci\_tools.zip); if this happens to you, simply rename the file back to its original name after the download is complete.
- For some browsers, you may need to right-click or control-click the link and choose "Save link as..." or a similar option to download the file.

#### Bio-Formats tools downloads

Clients	Size	File Name	Checksum
 LOCI Tools	10.01 MB	loci_tools.jar	dbbf3c ( <a href="#">MD5</a> )
 Command Line Tools	17.42 KB	bftools.zip	15d697 ( <a href="#">MD5</a> )
 MATLAB Toolbox	13.74 KB	bftoolbox.zip	b0e7b1 ( <a href="#">MD5</a> )

- loci\_tools.jar is complete bundle (for end users) containing everything needed to read images into ImageJ using Bio-Formats. Instructions for installing Bio-Formats in ImageJ are available in the [user guide](#).
- bftools.zip is a bundle of scripts for using Bio-Formats on the command line.
- bftoolbox.zip is a bundle of functions for using Bio-Formats from MATLAB.

**2**

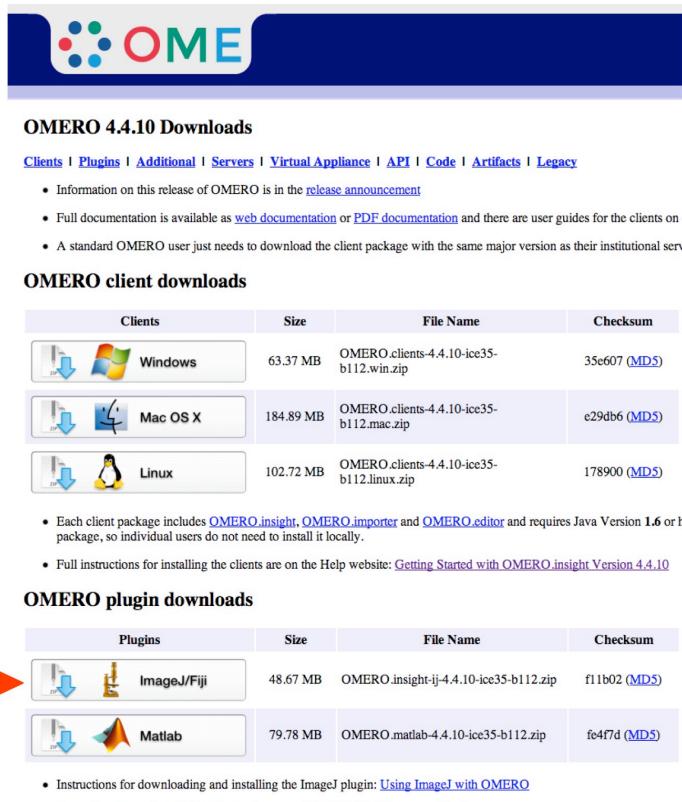
Save or move the downloaded file into the **ImageJ > plugins** folder.

Name	Date modified	Type
3D	1/28/2014 10:44 AM	File folder
Analyze	1/28/2014 10:44 AM	File folder
Examples	1/28/2014 10:44 AM	File folder
Filters	1/28/2014 10:44 AM	File folder
Graphics	1/28/2014 10:44 AM	File folder
Input-Output	1/28/2014 10:44 AM	File folder
jars	1/28/2014 10:44 AM	File folder
Scripts	1/28/2014 10:44 AM	File folder
Stacks	1/28/2014 10:44 AM	File folder
Tools	1/28/2014 10:44 AM	File folder
<b>loci_tools.jar</b>	1/28/2014 10:54 AM	Executable Jar File
README.txt	6/10/2013 8:56 PM	Text Document

### 3 Download the latest 4.4.x version of the OMERO.insight-ij plugin from:

<http://downloads.openmicroscopy.org/latest/omero4>

Check there is a “OMERO 4.4.x Downloads” heading on the page.



The screenshot shows the OMERO 4.4.10 Downloads page. It features a header with the OMERO logo and navigation links for Clients, Plugins, Additional, Servers, Virtual Appliance, API, Code, Artifacts, and Legacy. Below the header, there's a section titled "OMERO 4.4.10 Downloads" with a bulleted list of release information. The main content is divided into two sections: "OMERO client downloads" and "OMERO plugin downloads".

**OMERO client downloads**

Clients	Size	File Name	Checksum
Windows	63.37 MB	OMERO.clients-4.4.10-ice35-b112.win.zip	35e607 ( <a href="#">MD5</a> )
Mac OS X	184.89 MB	OMERO.clients-4.4.10-ice35-b112.mac.zip	c29db6 ( <a href="#">MD5</a> )
Linux	102.72 MB	OMERO.clients-4.4.10-ice35-b112.linux.zip	178900 ( <a href="#">MD5</a> )

Each client package includes OMERO.insight, OMERO.importer and OMERO.editor and requires Java Version 1.6 or higher. The package, so individual users do not need to install it locally.

Full instructions for installing the clients are on the Help website: [Getting Started with OMERO.insight Version 4.4.10](#)

**OMERO plugin downloads**

Plugins	Size	File Name	Checksum
ImageJ/Fiji	48.67 MB	OMERO.insight-ij-4.4.10-ice35-b112.zip	f11b02 ( <a href="#">MD5</a> )
Matlab	79.78 MB	OMERO.matlab-4.4.10-ice35-b112.zip	fc4f7d ( <a href="#">MD5</a> )

Instructions for downloading and installing the ImageJ plugin: [Using ImageJ with OMERO](#)  
Instructions for using the Matlab plugin are at: [OMERO Matlab language bindings](#)

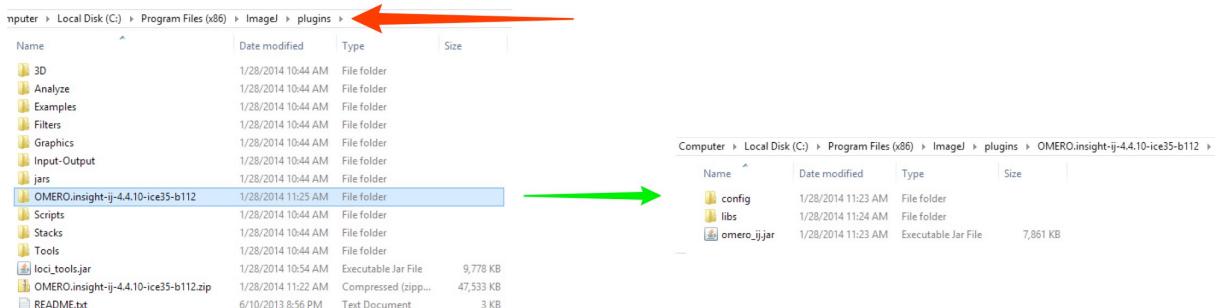
### 4

Save 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-x” where x is the version number.

Leave the complete OMERO.insight-ij plugin folder with its components in the ImageJ > plugins folder.

**Note:** Some Windows unzip apps create a double folder enclosing the plugin.  
Check, and if this has happened, copy the inner OMERO.insight-ij-4.4.x folder into the ImageJ > plugins folder.



The screenshot shows a file explorer with two windows. The left window shows the contents of the "plugins" folder under "Program Files (x86) > ImageJ". A red arrow points to the "OMERO.insight-ij-4.4.10-ice35-b112" folder. The right window shows the contents of the "OMERO.insight-ij-4.4.10-ice35-b112" folder, which contains "config", "libs", and "omero\_ij.jar". A green arrow points to the "omero\_ij.jar" file.

Name	Date modified	Type	Size
3D	1/28/2014 10:44 AM	File folder	
Analyze	1/28/2014 10:44 AM	File folder	
Examples	1/28/2014 10:44 AM	File folder	
Filters	1/28/2014 10:44 AM	File folder	
Graphics	1/28/2014 10:44 AM	File folder	
Input-Output	1/28/2014 10:44 AM	File folder	
jars	1/28/2014 10:44 AM	File folder	
OMERO.insight-ij-4.4.10-ice35-b112	1/28/2014 11:25 AM	File folder	
Scripts	1/28/2014 10:44 AM	File folder	
Stacks	1/28/2014 10:44 AM	File folder	
Tools	1/28/2014 10:44 AM	File folder	
loci_tools.jar	1/28/2014 10:54 AM	Executable Jar File	9,778 KB
OMERO.insight-ij-4.4.10-ice35-b112.zip	1/28/2014 11:22 AM	Compressed (zipp...	47,533 KB
README.txt	6/10/2013 8:56 PM	Text Document	3 KB

Name	Date modified	Type	Size
config	1/28/2014 11:23 AM	File folder	
libs	1/28/2014 11:24 AM	File folder	
omero_ij.jar	1/28/2014 11:23 AM	Executable Jar File	7,861 KB

The OMERO.insight-ij-5.0.x.zip archive can be left in the plugins folder or deleted.

## Using ImageJ with OMERO version 5.0.x

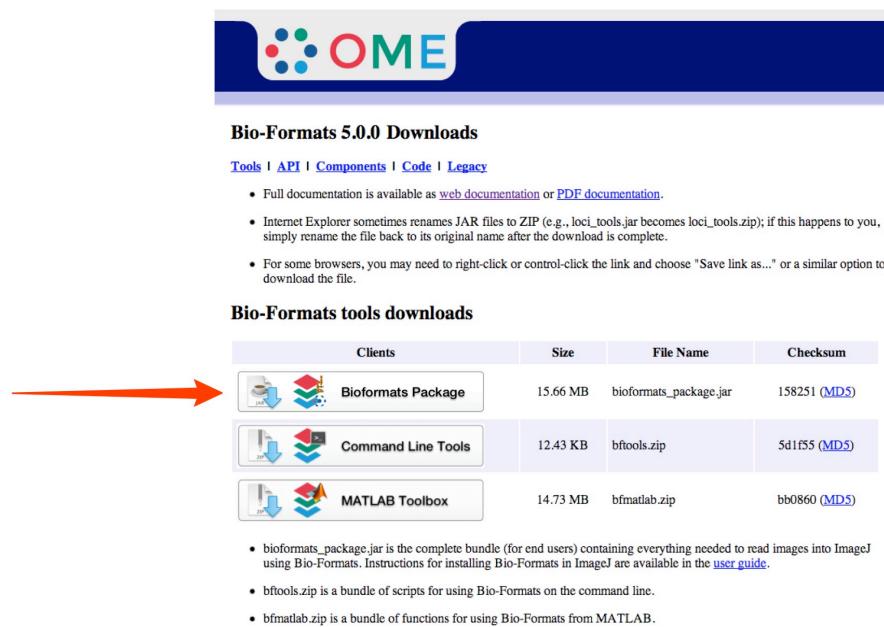
Two plugins are required:

- bioformats\_package.jar
- OMERO.insight-ij

- 1** Download the latest 5.0.x version of the **Bioformats Package** plugin from:

<http://downloads.openmicroscopy.org/latest/bio-formats5>

Check there is a “Bio-formats 5.0.x Downloads” heading on the page.



**Bio-Formats 5.0.0 Downloads**

[Tools](#) | [API](#) | [Components](#) | [Code](#) | [Legacy](#)

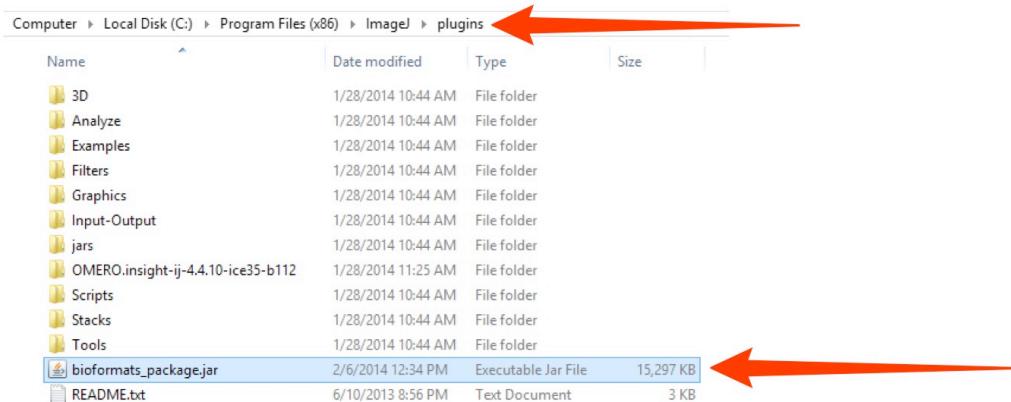
- Full documentation is available as [web documentation](#) or [PDF documentation](#).
- Internet Explorer sometimes renames JAR files to ZIP (e.g., loci\_tools.jar becomes loci\_tools.zip); if this happens to you, simply rename the file back to its original name after the download is complete.
- For some browsers, you may need to right-click or control-click the link and choose "Save link as..." or a similar option to download the file.

**Bio-Formats tools downloads**

Clients	Size	File Name	Checksum
	15.66 MB	bioformats_package.jar	158251 ( <a href="#">MD5</a> )
	12.43 KB	bftools.zip	5d1f55 ( <a href="#">MD5</a> )
	14.73 MB	bftoolbox.zip	bb0860 ( <a href="#">MD5</a> )

- bioformats\_package.jar is the complete bundle (for end users) containing everything needed to read images into ImageJ using Bio-Formats. Instructions for installing Bio-Formats in ImageJ are available in the [user guide](#).
- bftools.zip is a bundle of scripts for using Bio-Formats on the command line.
- bftoolbox.zip is a bundle of functions for using Bio-Formats from MATLAB.

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



Computer > Local Disk (C:) > Program Files (x86) > ImageJ > plugins

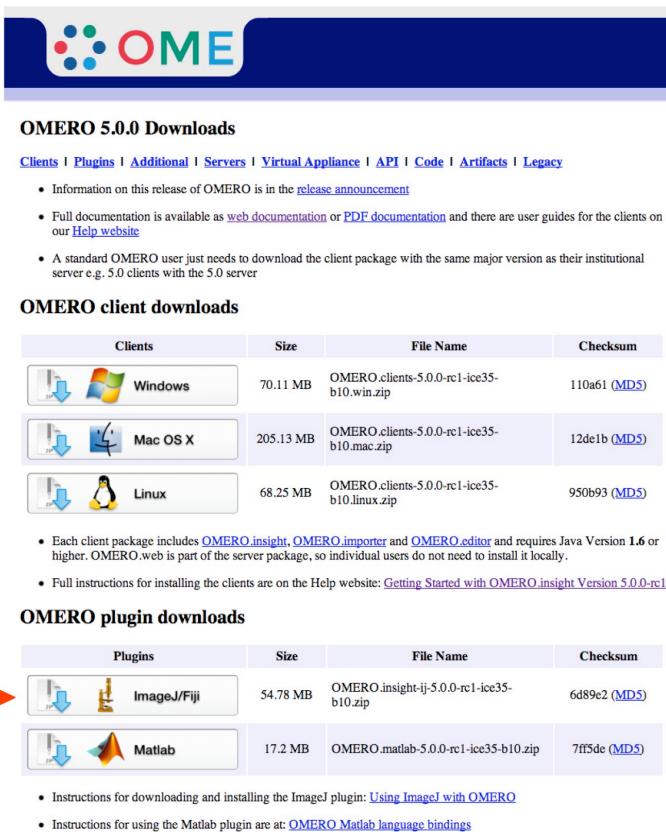
Name	Date modified	Type	Size
3D	1/28/2014 10:44 AM	File folder	
Analyze	1/28/2014 10:44 AM	File folder	
Examples	1/28/2014 10:44 AM	File folder	
Filters	1/28/2014 10:44 AM	File folder	
Graphics	1/28/2014 10:44 AM	File folder	
Input-Output	1/28/2014 10:44 AM	File folder	
jars	1/28/2014 10:44 AM	File folder	
OMERO.insight-ij-4.4.10-ice35-b112	1/28/2014 11:25 AM	File folder	
Scripts	1/28/2014 10:44 AM	File folder	
Stacks	1/28/2014 10:44 AM	File folder	
Tools	1/28/2014 10:44 AM	File folder	
<b>bioformats_package.jar</b>	2/6/2014 12:34 PM	Executable Jar File	15,297 KB
README.txt	6/10/2013 8:56 PM	Text Document	3 KB

3

Download the latest 5.0.x version of the OMERO.insight-ij plugin from:

<http://downloads.openmicroscopy.org/latest/omero5>

Check there is a “OMERO 5.0.x Downloads” heading on the page.



The screenshot shows the OMERO 5.0.0 Downloads page. At the top, there's a navigation bar with links to Clients, Plugins, Additional, Servers, Virtual Appliance, API, Code, Artifacts, and Legacy. Below the navigation, there's a list of bullet points:

- Information on this release of OMERO is in the [release announcement](#).
- Full documentation is available as [web documentation](#) or [PDF documentation](#) and there are user guides for the clients on our [Help website](#).
- A standard OMERO user just needs to download the client package with the same major version as their institutional server e.g. 5.0 clients with the 5.0 server.

Below this is a section titled "OMERO client downloads" with three rows of download links for Windows, Mac OS X, and Linux. Each row includes a download icon, the operating system name, file size, file name, and checksum.

At the bottom of the client section, there are two bullet points:

- Each client package includes [OMERO.insight](#), [OMERO.importer](#) and [OMERO.editor](#) and requires Java Version [1.6](#) or higher. OMERO.web is part of the server package, so individual users do not need to install it locally.
- Full instructions for installing the clients are on the Help website: [Getting Started with OMERO.insight Version 5.0.0-rc1](#)

Below the client section is another section titled "OMERO plugin downloads". An orange arrow points to the "ImageJ/Fiji" row. This row also includes a download icon, the plugin name, file size, file name, and checksum.

At the bottom of the plugin section, there are two bullet points:

- Instructions for downloading and installing the ImageJ plugin: [Using ImageJ with OMERO](#).
- Instructions for using the Matlab plugin are at: [OMERO Matlab language bindings](#).

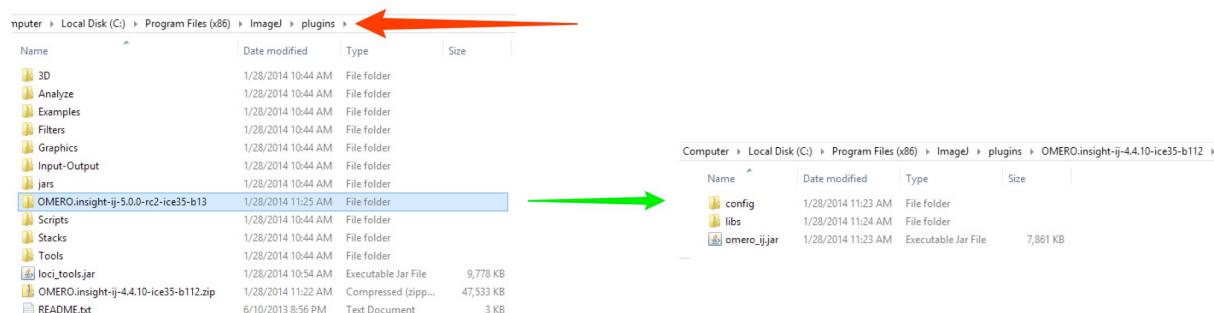
4

Save 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-x`” where `x` is the version number.

Leave the complete `OMERO.insight-ij` plugin folder with its components in the `ImageJ > plugins` folder.

**Note:** Some Windows unzip apps create a double folder enclosing the plugin. Check, and if this has happened, copy the inner `OMERO.insight-ij-5.0.x` folder into the `ImageJ > plugins` folder.



The screenshot shows two windows of the Windows File Explorer. The left window shows the contents of the `ImageJ > plugins` folder, which contains several subfolders like 3D, Analyze, Examples, Filters, Graphics, Input-Output, and jars. One folder, `OMERO.insight-ij-5.0.0-rc2-ice35-b13`, is highlighted with a blue selection bar. An orange arrow points to this folder. The right window shows the contents of the `OMERO.insight-ij-5.0.0-rc2-ice35-b13` folder, which contains three files: `config`, `libs`, and `omero_ij.jar`. A green arrow points to the `omero_ij.jar` file.

The `OMERO.insight-ij-5.0.x.zip` archive can be left in the `plugins` folder or deleted.

## Upgrading ImageJ from 4.4.x to 5.0.x

To upgrade ImageJ for use with an OMERO version 5 server, you need to:

**1**

Go to the `ImageJ > plugins` folder.

Delete the `loci_tools.jar` and the `OMERO.insight-ij-4.4.x` folder.

**2**

Download the latest 5.0.x version of the Bioformats Package plugin from:

<http://downloads.openmicroscopy.org/latest/bio-formats5>

(See screenshot above)

Check there is a “Bio-formats 5.0.x Downloads” heading on the page.

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

**3**

Download the latest 5.0.x version of the `OMERO.insight-ij` plugin from:

<http://downloads.openmicroscopy.org/latest/omero5>

(See screenshot above)

Check there is a “OMERO 5.0.x Downloads” heading on the page.

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

**Note:** The `bioformats_package.jar` you need, to use ImageJ with OMERO version 5.0.x, is incompatible with `loci_tools.jar`, and ImageJ will not work with OMERO if both are in the `plugins` folder.

We suggest that if you wish to access both 4.4.x and 5.0.x versions of OMERO from ImageJ that you run two appropriately named copies of ImageJ each with the appropriate plugins for the version.

## Using Fiji with OMERO 4.4.x

As Fiji comes bundled with the components of LOCI Tools, there is no need to download and install this plugin.

One plugin is required:

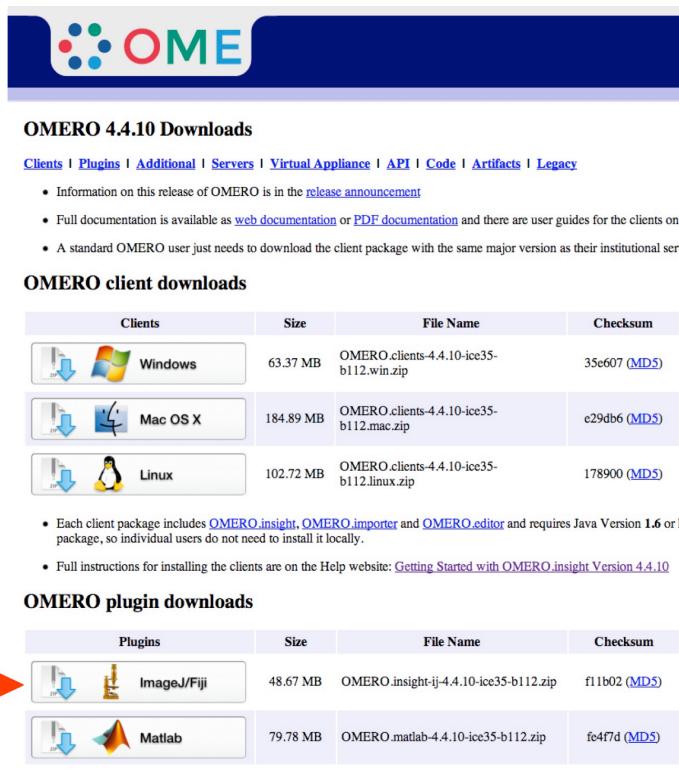
- OMERO.insight-ij

1

Download the latest 4.4.x version of the OMERO.insight-ij plugin from:

<http://downloads.openmicroscopy.org/latest/omero4>

Check there is a “OMERO 4.4.x Downloads” heading on the page.



The screenshot shows the OMERO 4.4.10 Downloads page. At the top, there's a navigation bar with links to Clients, Plugins, Additional, Servers, Virtual Appliance, API, Code, Artifacts, and Legacy. Below the navigation, there's a section titled "OMERO 4.4.10 Downloads" with a list of bullet points:
 

- Information on this release of OMERO is in the [release announcement](#)
- Full documentation is available as [web documentation](#) or [PDF documentation](#) and there are user guides for the clients on [clients.ome.org](#)
- A standard OMERO user just needs to download the client package with the same major version as their institutional server

 There are two main download sections:
 

- OMERO client downloads:** A table showing three clients: Windows (63.37 MB), Mac OS X (184.89 MB), and Linux (102.72 MB). Each row includes a download link and a MD5 checksum.
- OMERO plugin downloads:** A table showing two plugins: ImageJ/Fiji (48.67 MB) and Matlab (79.78 MB). Each row includes a download link and a MD5 checksum.

 A red arrow points to the ImageJ/Fiji download link in the plugin section.

Clients	Size	File Name	Checksum
Windows	63.37 MB	OMERO.clients-4.4.10-ice35-b112.win.zip	35e607 ( <a href="#">MD5</a> )
Mac OS X	184.89 MB	OMERO.clients-4.4.10-ice35-b112.mac.zip	e29db6 ( <a href="#">MD5</a> )
Linux	102.72 MB	OMERO.clients-4.4.10-ice35-b112.linux.zip	178900 ( <a href="#">MD5</a> )

Plugins	Size	File Name	Checksum
ImageJ/Fiji	48.67 MB	OMERO.insight-ij-4.4.10-ice35-b112.zip	f11b02 ( <a href="#">MD5</a> )
Matlab	79.78 MB	OMERO.matlab-4.4.10-ice35-b112.zip	fe4f7d ( <a href="#">MD5</a> )

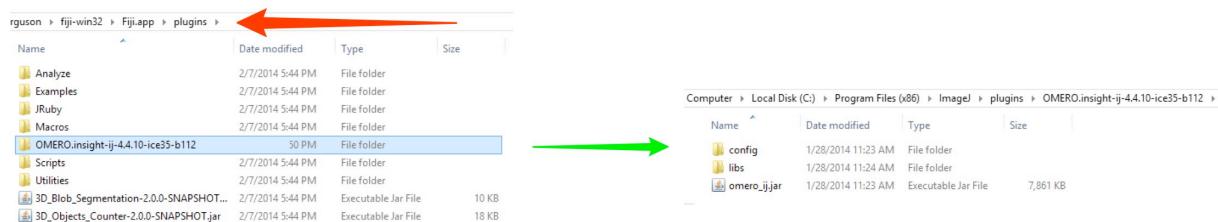
2

Save or move the .zip archive to the Fiji.app > plugins folder.

Extract the archive into the plugins folder to give a folder named "OMERO.insight-ij-x" where x is the version number.

Leave the complete OMERO.insight-ij plugin folder with its components in the ImageJ > plugins folder.

**Note:** Some Windows unzip apps create a double folder enclosing the plugin.  
Check, and if this has happened, copy the inner OMERO.insight-ij-4.4.x folder into the ImageJ > plugins folder.



Delete the OMERO.insight-ij-4.4.x.zip archive from the plugins folder.

## Using Fiji with OMERO 5.0.x

As Fiji comes bundled with the components of Bioformats Package, there is no need to download and install this plugin.

Two actions are required for both a fresh installation and to upgrade from version 4.4.x:

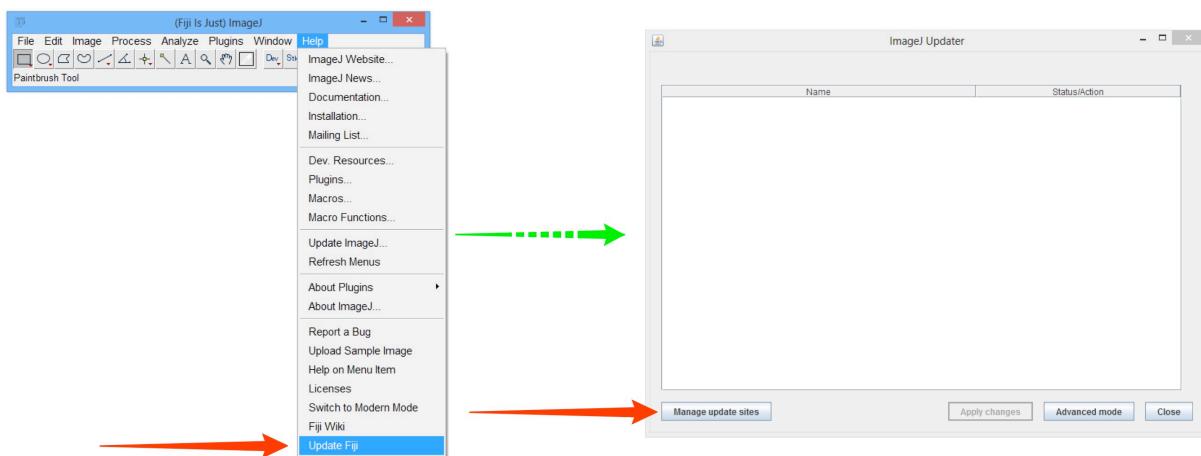
- select the appropriate Bio-Formats jars (equivalent of LOCI Tools in ImageJ) using the update menu
- add the OMERO.insight-ij plugin

**1**

Select **Help > Update Fiji**.

Fiji will check for updates and after following prompts you will end up at the ImageJ Updater Window.

Click on **Manage update sites**.



**2**

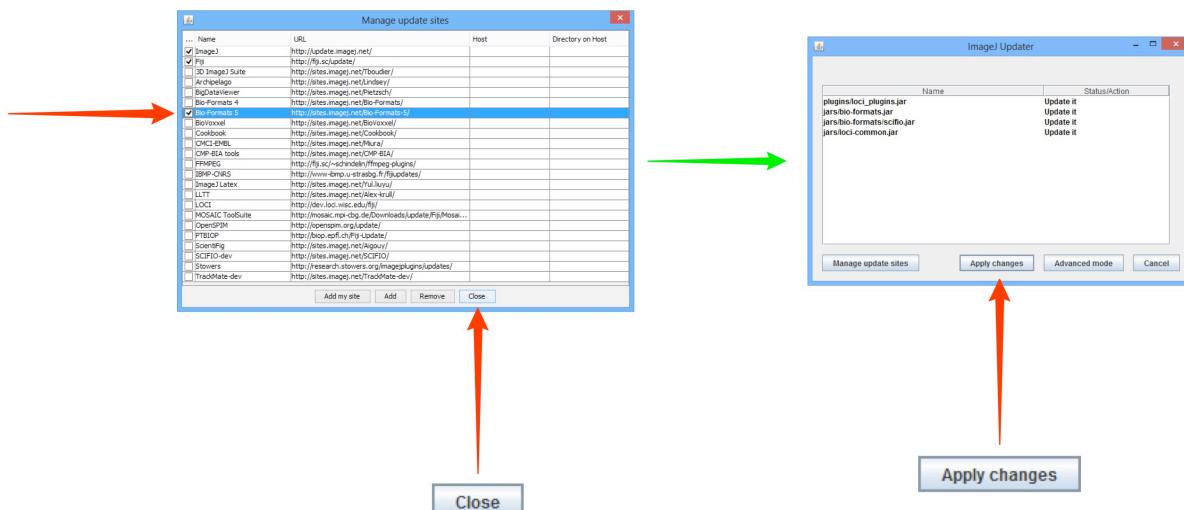
In the Manage update site window, select **Bio-formats 5**.

If **Bio-formats 4** is checked, uncheck it.

Click **Close**.

Click **Apply Changes**.

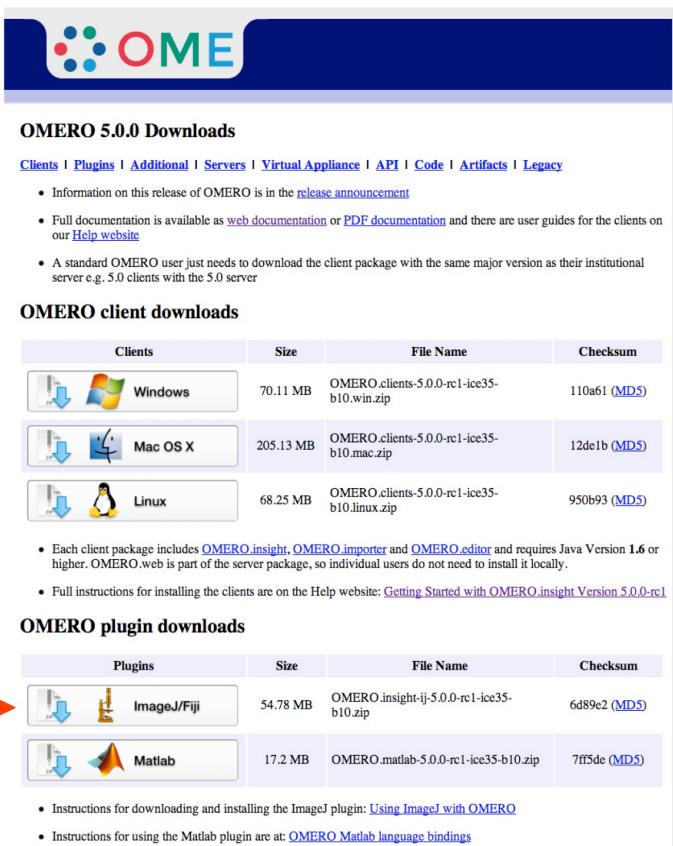
Fiji will fetch and install the updates.



### 3 Download the latest 5.0.x version of the OMERO.insight-ij plugin from:

<http://downloads.openmicroscopy.org/latest/bio-formats5>

Check there is a “OMERO 4.4.x Downloads” heading on the page.



The screenshot shows the OMERO 5.0.0 Downloads page. It features a header with the OME logo and navigation links for Clients, Plugins, Additional, Servers, Virtual Appliance, API, Code, Artifacts, and Legacy. Below this is a section titled "OMERO 5.0.0 Downloads" with a bulleted list of release information. The main content is divided into two sections: "OMERO client downloads" and "OMERO plugin downloads".

**OMERO client downloads**

Clients	Size	File Name	Checksum
 Windows	70.11 MB	OMERO.clients-5.0.0-rc1-ice35-b10.win.zip	110a61 ( <a href="#">MD5</a> )
 Mac OS X	205.13 MB	OMERO.clients-5.0.0-rc1-ice35-b10.mac.zip	12de1b ( <a href="#">MD5</a> )
 Linux	68.25 MB	OMERO.clients-5.0.0-rc1-ice35-b10.linux.zip	950b93 ( <a href="#">MD5</a> )

Each client package includes OMERO.insight, OMERO.importer and OMERO.editor and requires Java Version 1.6 or higher. OMERO.web is part of the server package, so individual users do not need to install it locally.

Full instructions for installing the clients are on the Help website: [Getting Started with OMERO.insight Version 5.0.0-rc1](#).

**OMERO plugin downloads**

Plugins	Size	File Name	Checksum
 ImageJ/Fiji	54.78 MB	OMERO.insight-ij-5.0.0-rc1-ice35-b10.zip	6d89c2 ( <a href="#">MD5</a> )
 Matlab	17.2 MB	OMERO.matlab-5.0.0-rc1-ice35-b10.zip	7ff5de ( <a href="#">MD5</a> )

Instructions for downloading and installing the ImageJ plugin: [Using ImageJ with OMERO](#). Instructions for using the Matlab plugin are at: [OMERO Matlab language bindings](#).

### 2

Save or move the .zip archive to the Fiji.app > plugins folder.

If upgrading delete the 4.4.x version of OMERO.insight-ij.

Extract the archive into the plugins folder to give a folder named “OMERO.insight-ij-x” where x is the version number.

Leave the complete OMERO.insight-ij plugin folder with its components in the ImageJ > plugins folder.

**Note:** Some Windows unzip apps create a double folder enclosing the plugin.

Check, and if this has happened, copy the inner OMERO.insight-ij-4.4.x folder into the ImageJ > plugins folder.



Delete the OMERO.insight-ij-4.4.x.zip archive from the plugins folder.

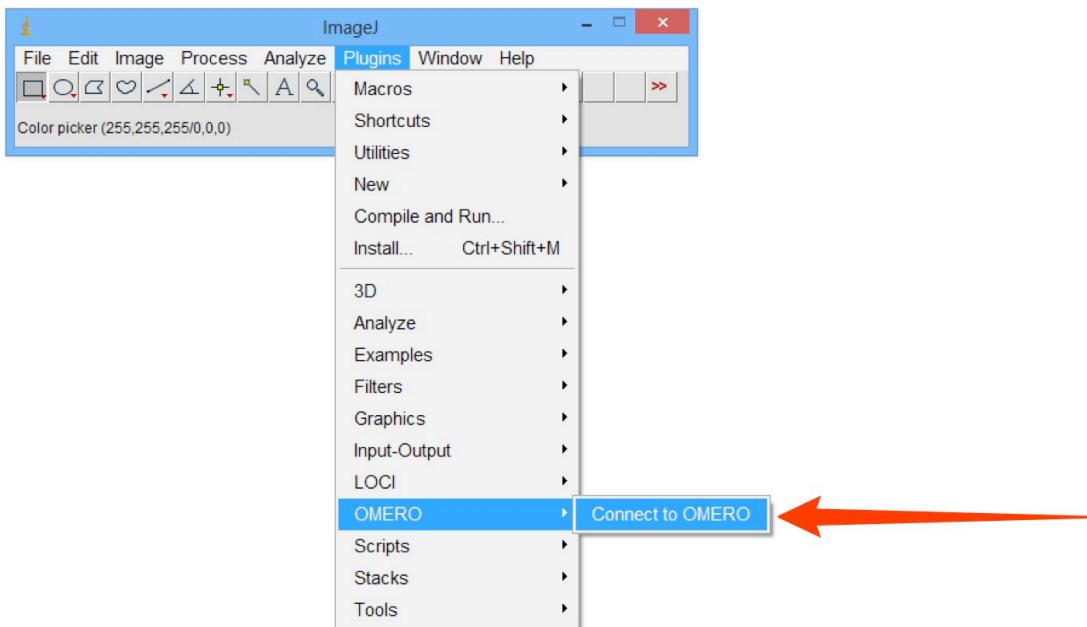
## Accessing OMERO using ImageJ and Fiji

1

Launch the ImageJ or Fiji 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.

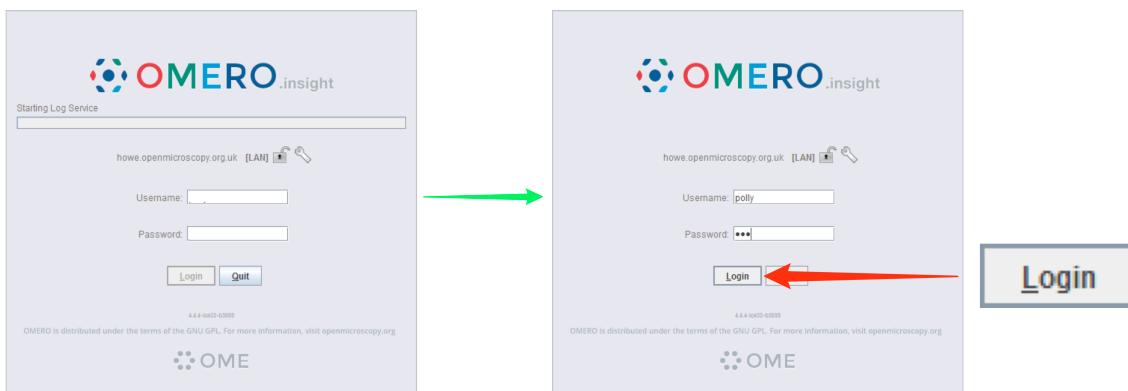


2

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 minute for the progress bar to start moving and complete.

Enter your OMERO server address, if needed, and **Username** and **Password**.

Click **Login**.



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.

**3**

Double click on the image in the data tree or select the image and **View > View in ImageJ** in the contextual menu.

Select the check box to set Bio-Formats to automatically check for updates.

Click **OK** and the Bio-Formats Import Options window opens.

Set parameters and click **OK**.

Your image will open in the ImageJ viewer.

