Interactive Laboratory Microbiology (ILM)
for
Virtual & In-Lab Microbiology

ILMS2024_Download Instructions

The instructions below explain how to download and open ILMS2024 on your computer.

www.interactivelabmicro.com

The advantage of *ILMS2024* is that after the intial download, the program is independent of internet speed. *ILMS* videos will run smoothly.

Please note that *ILMS2024* is designed for PCs and MACs but is not fully compatible with Chromebook (see bottom of page 2).

(Step 0) *ILMS2024* is presented as FileOpen, encrypted PDF. In order to open *ILMS2024*, install Adobe Reader DC & the FileOpen plugin on your computer. First however, update your MAC or PC operating software.

Adobe Reader DC
(Step 1) Download/install Acrobat Reader DC: http://www.adobe.com/reader. Other PDF Readers are not compatible with FileOpen (below).

ILMS2024 takes advantage of the multimedia capabilities of Acrobat Reader DC for PCs and MACs. Please ensure that you have the latest update to the free Acrobat Reader DC, which allows Windows Player & Apple QuickTime to play *ILMS* videos.
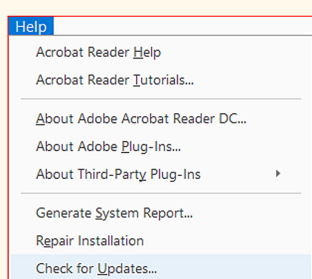
(Step 2) If Acrobat Reader DC is already installed on your computer, then select "Help" and "Check for Updates". Please note that iPads and other tablets operate Acrobat Mobile, which has reduced functions & will not play PDF multimedia. *ILMS2024* is not fully compatible with iPads & other tablets.
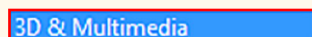
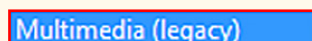(Step 3) Make Acrobat Reader DC the default PDF program.

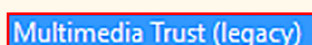Set up Acrobat Reader DC on your PC for Windows Player:
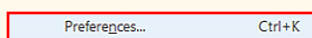
(Step 4.1) In Acrobat Reader DC, select Edit & Preferences.

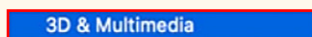(Step 4.2) In 3D & Multimedia, enable playing of 3D content

(Step 4.3) In Multimedia (legacy), select Windows Media Player as the Preferred Media Player.
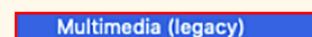
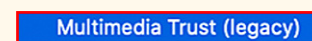(Step 4.4) In Multimedia Trust (legacy), allow multimedia operations.

Set up Acrobat Reader DC on your MAC for QuickTime:

(Step 5.1) In 3D & Multimedia, Enable playing of 3D content.

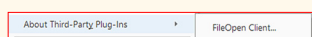(Step 5.2) In Multimedia (legacy), set Prefered Media Player to QuickTime.

(Step 5.3) In Multimedia Trust (legacy), Allow multimedia operations.

FileOpen plugin:
(Step 6) Download & Install the FileOpen plugin from here: http://plugin.fileopen.com/. However, first close Adobe Reader DC.

(Step 7) Confirm the FileOpen plugin is installed in Adobe Reader DC. In Adobe Reader, select Help>About Third-Party Plug-Ins>FileOpen Client.

ILMS Download:
ILMS2024 is a large program (~4 GB). Confirm you have sufficient space on your computer. Consider Disk Cleanup or playing *ILMS2024* from a USB.
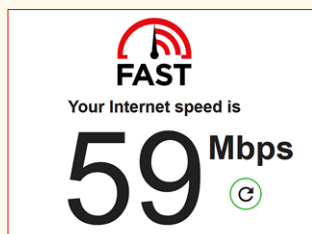
Your College may supply unzipped (see later) *ILMS2024* on a USB or the College's intranet instead of downloading from *www.interactivelabmicro.com*.

(Step 8) Check your internet speed at *www.fast.com*. You need an internet speed of at least 10-15 Mbps. Find a good place to download, such as the College campus or a library. Internet speed doubles if you connect your computer to the internet by cable. It is often faster to download overnight.

(Step 9) MAC computers should consider using the faster Firefox browser, *https://www.mozilla.org/en-US/firefox/new/*

MAC computers also need to download Apple's free Unarchiver to unzip compressed *ILMS* files, *www.theunarchiver.com*.
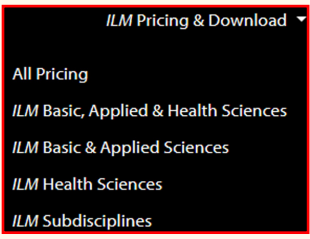
www.interactivelabmicro.com

At the *ILM* Website:
ILM Subdisciplines (ILMS2024) divides the laboratory microbiology curriculum into 10 Subdisciplines for easier downloads:

I Pure Culture Techniques	VI Microbial Biochemistry
II Staining Techniques	VII Bacterial Genetics
III Microscopy	VIII Microbial Ecology
IV Eukaryote Microbes	IX Food & Water Microbiology
V Microbial Physiology	X Clinical Microbiology

(Step 10.1) On the *ILM* website, *www.interactivelabmicro.com*, go to *ILM* Downloads, which is on the right side of the navigation bar.

(Step 10.2) Select *ILM* Subdisciplines,
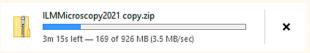https://www.interactivelabmicro.com/ilm-subdisciplines.

(Step 10.3) Scroll down to the *ILMS_Download 2024* button. Your login will be provided by your course Instructor. Do not use your FileOpen login which is reserved for downloaded and extracted *ILMS* files (see later).
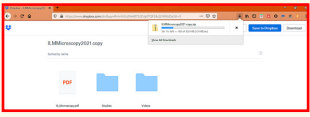
(Step 10.4) Download only one *ILM Subdiscipline* at a time.

(Step 10.5) Follow the download: each subdiscipline may take 10-15minutes. There is no point in the following steps if downloads are incomplete.

ILM Payment:

ILM Registering & Payment

(Step 11) Your College may have paid for your subscription. Please do not subscribe again! Your FileOpen password will be emailed to you separately.

The *ILM* website, *https://www.interactivelabmicro.com/*, has a suggested retail price for your selected subdisciplines. If available, change the price to your Institution's discounted price. Add your First/Last names, College email address and Institution. Select Purchase now. Your FileOpen password will be emailed to you separately. Your *ILMS* subscription may be cancelled & refunded in full before your College's add/drop deadline.
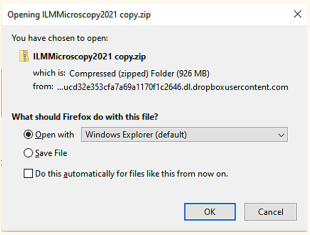

(Steps 10.6) *ILMS2024* downloads are zipped (compressed) files for transfer from one computer to another. Zipped files must be unzipped (extracted or uncompressed). On a PC, open zipped files with Windows Explorer. You will need to specify where to store ILMS files so that you can readily find them. Save your *ILMS* files in "Documents", although you could create a new *ILMS* folder which would be preferable.
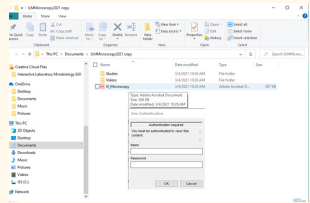
(Step 10.7) Select an unzipped *ILMS* PDF document (e.g., III Microscopy). The FileOPen User Authentication box will appear. Input your username & password. Your username is your college email address. Be careful with your FileOpen password: do not confuse lowercase letters with numbers. Allow 30–60 minutes for the FileOpen server to complete your registration. You will need to login only once.
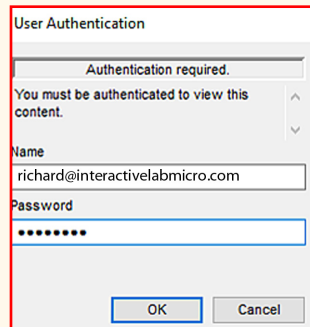
You are then able to move freely from one file to another!

The Unarchiver for Mac
✔ Free ✔ In English V 4.2.4
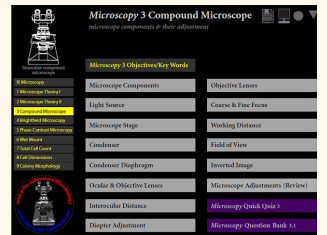
(Steps 12.2–12.7) The download and install steps are essentially similar on a MAC computer. Unzip *ILMS2024* files with Apple's Unarchiver (see Step 9).

Contact your course Instructor or, *only with your Instructor's permission*, email *richard@interactivelabmicro.com* should you encounter any difficulty. Include in your email a description of the problem together with a screenshot. What's not happening? Which Step 1–12 is not working?

Happy computing!

Happy microbiology!

Chromebook

chromebook

In place of Adobe Reader DC and the FileOpen plugin, Chromebook uses the FileOpen Viewer, which is available from Google Play:

https://play.google.com/store/search?q=fileopen%20viewer%20for%20android

Google Play

Download and install the FileOpen Viewer.

Follow Steps 10–11 to download *ILM* Subdisciplines.

FileOpen Viewer
FileOpen Systems Inc.

FileOpen Viewer displays *ILM* pdf pages with text and images beautifully.

However, FileOpen Viewer does not play multimedia including *ILM* Best Practice & *ILM* Videos. *ILM* Quick Quizzes open but are not interactive.