



# Welcome to bioBakery

**bioBakery** is a virtual machine (VM) environment designed to help you execute metagenomics analyses.

**bioBakery** and the tools therein were developed by the Huttenhower lab at the Harvard School of Public Health:  
<http://huttenhower.sph.harvard.edu/>

**bioBakery** is based on Ubuntu Linux 12.10.



# Using bioBakery tools

This tutorial is designed to familiarize you with the **bioBakery** *environment*.

For an overview of the types of software and analyses available in **bioBakery**, please visit:

<https://bitbucket.org/timothylickle/biobakery/wiki/Home>

For help with a specific tool, please visit its individual web site; links to individual tool pages are available here:

<http://huttenhower.sph.harvard.edu/biobakery>



# Differences between bioBakery and linux

We have customized **bioBakery** to be a bit more forgiving than the typical linux environment.

In linux, typing “*rm file*” in the command prompt will permanently delete the file; in **bioBakery**, this command moves the file to the trash.

(Use “*hardrm file*” to delete permanently.)

**bioBakery** will also prompt you before overwriting a file. (E.g. if you attempt to copy a file to a location with an identically named file.)



# Sharing files with bioBakery

The VirtualBox app runs bioBakery as a “guest” operating system (OS) within your computer’s primary OS, which we call the “host” OS.

By default, the guest OS cannot see files on the host OS. However, it is possible to configure folders to be shared between the guest and host.



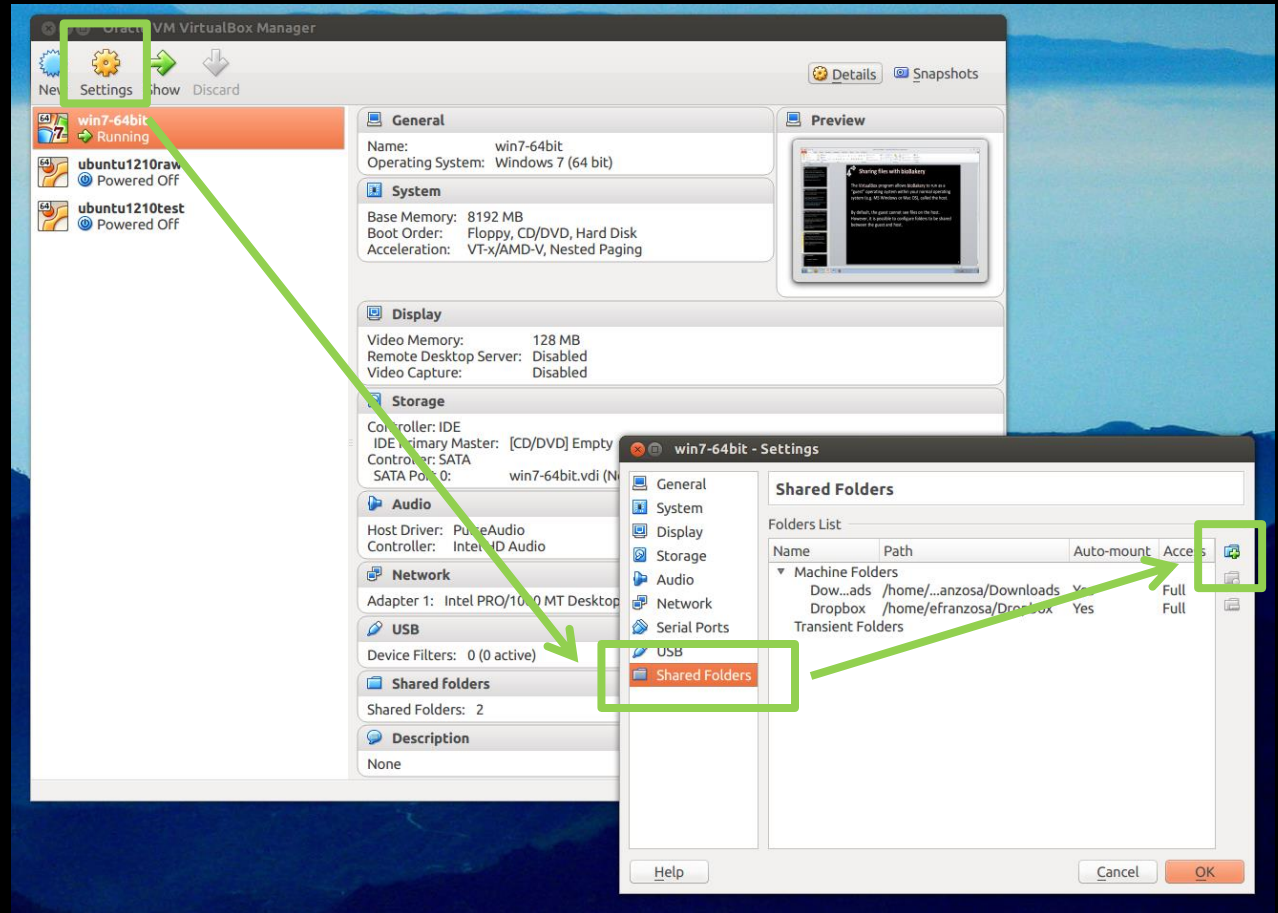
# Sharing files with bioBakery

In the VirtualBox app running on the host OS...

Select settings...

Then shared folders...

Then click the tiny plus icon.

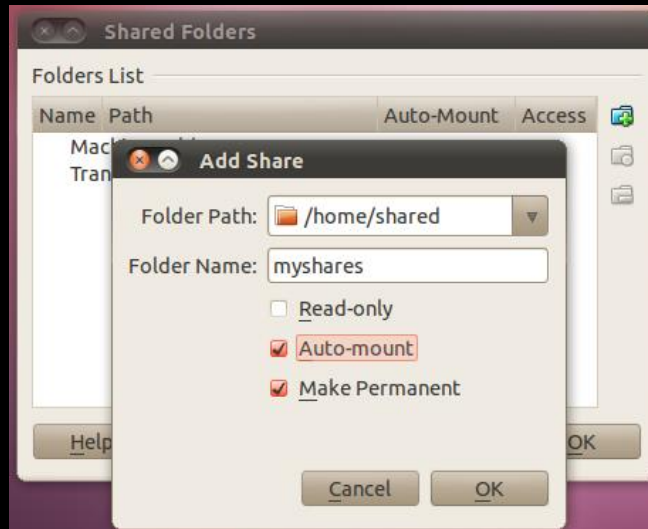




# Sharing files with bioBakery

Select a folder on the host OS from the dropdown menu.  
Tick the “auto-mount” and “make permanent” boxes.

The next time you restart bioBakery, this folder will be available under **Computer/Media**.





# Sharing files with bioBakery

Sharing the clipboard between the host and guest is also helpful (this lets you copy on the host and paste on the guest, and vice versa).

In the VirtualBox app...  
Under settings/General...  
Select the Advanced tab...  
Set “Shared Clipboard” to  
“Bidirectional”

