

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 document introduces some important details of the **bioBakery** environment.

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

https://bitbucket.org/biobakery/biobakery

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 from standard linux (1)

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 move or copy a file to a location with an identically named file.)



Differences from standard linux (2)

You can open a file in bioBakery by typing **open file** at the command prompt; this will open the file in its associated default program.

Right clicking on the desktop, a folder icon, or inside of a folder will give you the option to open a command prompt at that location.



Sharing files with bioBakery

Using Vagrant and VirtualBox, your computer's operating system (the "host OS") runs **bioBakery** within a window as a separate operating system (the "guest OS").

By default, the guest OS can only see files on the host OS if they are located within the Vagrant folder.

Click here to learn how to share additional folders/files from the host OS with bioBakery.

We strongly recommend saving important files to the host OS so they are available outside of bioBakery.



All programs installed by biobakery are located in: /usr/share/biobakery

Executable programs located in this folder have been added to the PATH environment variable.

This means that you can type a command like \$ python metaphlan.py --help from anywhere to see MetaPhlAn's help output.



Adding/upgrading programs

<*.deb> installation files are available for Huttenhower Lab tools in this repository:

http://huttenhower.sph.harvard.edu/biobakery-shop/deb-packages

To add or upgrade a Huttenhower Lab tool run:

\$ sudo apt-get install hutlab_tool

The same command can be used to install other linux utilities (these are not supported):

\$ sudo apt-get install other_utility



For more help

Check out the bioBakery wiki for more information:

https://bitbucket.org/biobakery/biobakery/wiki/biobakery wiki

You can also join and email the bioBakery user group:

biobakery-users@googlegroups.com