

Adding Databases to the Loo Lab MASCOT server

Note: Be aware of a few things about the Loo Lab's server. First of all it is located "upstairs" and is often referred to as the "upstairs server." Remote connection to the server for the purposes of adding databases can be done from the Loo lab PC's or other allowed computers, otherwise access is denied.

Downloading Databases

- 1) Download your database(s) and save them into a folder with an appropriate name.
- 2) Open your database file in notepad to make sure no strange characters appear in the text.

Connect to upstairs server

- 1) From a Loo lab PC click on the following:
Programs → Accessories → Communications → Remote desktop connection
- 2) To connect to the server you must have the password, which will not be given here. Once you are connected a new window will appear showing you the interface with the Mascot server.
NOTE: For this guide the MASCOT server interface will be called the MASCOT interface and the interface of the PC used to connect to the server will be called the Home interface.

Uploading the database

- 1) From the My computer window in the MASCOT interface, access drive E (labeled as backup) then click on the following:
Mascot → sequence
- 2) Create a new folder for each new database you wish to enter.
- 3) Click on the start menu in the MASCOT interface and select the option to stop MASCOT.
- 4) In the window that should pop up set the user as "Rachel" and enter the password mentioned in step 2 of the "Connect to upstairs server" section.
- 5) In your new folder in the MASCOT interface create three new folders labeled Old, Current, and Incoming
Old: Database files that are no longer being used but are saved for archival purposes
Incoming: Unaltered database files. Database adjustment should be done here and final versions then uploaded into the Current folder
Current: Active database files for use in MASCOT

6) Transfer your database files from the Home interface into the Incoming folder in the MASCOT interface.

7) Right-click the files and select extract <filename>

8) A new icon should appear for your extracted file. Make sure it is in “fasta” format. (file name should appear as <filename>.fasta)

9) Right-click on the extracted file and select UltraEdit-32, when given the option DO NOT put the file into DOS format. Save the file in “all files” format.

10) Move the new file from the Incoming folder to the Current folder

Checking your database and adding it to MASCOT Daemon

1) In the MASCOT interface click on the start menu and start MASCOT.

2) In the window that should pop up set the user as “Rachel” and enter the password mentioned earlier.

3) In the Home interface open up an internet file using Maxthon.

4) Click on the following:

Favorites → MASCOT upstairs

5) Now click on Database maintenance and enter “Rachel” as the username and the password when prompted.

6) Click on the “new definition” button towards the bottom of the screen.

7) In the “name” field enter a name for your database (suggest using the same name you used to name the folder).

8) Directly below the “name” field is a field called “path.” Here you should enter the path as specified on the MASCOT interface. In addition be sure to add an asterix after the filename and delete anything after “fasta” in the path name. If you have done things correctly it should look like the following:

E:/Mascot/sequence/<foldername>/current/<filename>*.fasta

9) Now select the “test definition” button.

10) If no errors are reported press the “apply” button.

11) In the MASCOT interface click on the start button and select “turn off computer.” Then select the restart option. Exit the MASCOT interface. This should reboot the Mascot server.

12) Wait a few minutes for the server to reboot then run a test analysis using your new database to ensure that it is running properly.