SFTP (Secure File Transfer Protocol) – data transfer from/to the shared servers:

How to Connect to the Ecogenetics SFTP server (Interactive mode)

sftp uaccount@share8.univie.ac.at

Password: your u:account password.

Once you are connected check the available commands by typing '?' or 'help'.

Typical commands:

	SFTP server	<u>L</u> ocal system
List content of directory	ls	lls
Change directory	cd	lcd
Print working directory	pwd	lpwd
Make directory	mkdir	lmkdir

Data transfer

	Uploading data	Downloading data
One file	put FILE1	get FILE1
Multiple files	mput *.txt	mget *.txt

Use the cd command to change to the directory /ecogenetics/bash_tutorial:

cd /ecogenetics/bash_tutorial/

Create a directory:

mkdir YOUR_NAME

Check your local working directory:

lpwd

If you are not at ~/YOUR_NAME/

lcd ~/YOUR NAME/

List the content of the local directory:

lls

Upload a file (created in Material 2):

```
put test.txt
ls  #Check if the file was uploaded.
```

Download a file:

Type 'bye' to exit the interactive mode.

```
Run the program: ./camel.pl
```

If it doesn't work make it executable (hint: chmod, Material 2).

SFTP Non-interactive mode

As an alternative, you can download a file directly via the command line (non-interactive mode):

```
cd # Go home, if not at home already [Windows user: cd ~/YOUR_NAME/]
sftp uaccount@share8.univie.ac.at:/ecogenetics/Lab_group_pictures/Bild1.jpg
```

This also works for multiple files. In this case you will download all (= *) files ending with ".jpg".

sftp uaccount@share8.univie.ac.at:/ecogenetics/Lab_group_pictures/*.jpg

Advanced one-liner to upload:

This example combines the login to an SFTP server and uploads all (= *) jpg pictures:

sftp uaccount@share8.univie.ac.at:/ecogenetics/bash_tutorial/YOUR_NAME/ <<< \$'mput
*.jpg'</pre>