

# Exercise 3

Send the following job to the cluster:

```
bsub -q new-short -J example -o example-%J.o -e example-%J.e date
```

Send the command in the two additional ways:

```
bsub -q new-short -J example -o example-%J.o -e example-%J.e <command.txt
```

- By job spooling  
\$ bsub < job\_file

job\_file example:

```
#BSUB -q new-short  
#BSUB -J example  
#BSUB -o example-%J.o  
#BSUB -e example-%J.e  
date
```

# Exercise 3 - question 1

Write the commands you used to a **new file** called **my\_linux\_exercise**.

Write in this file the answers to the questions below.

Question 1: Compare all the outputs.

Time of the run

File names (including the job number – we wrote %J)

# Exercise 3 – question 2

Question 2: What is the full path to your home directory?

The command: `pwd`

Make sure you are in your home directory...

or go to it using the command: `cd ~`

# Exercise 1 – question 3

Question 3: Explain when will you choose to use the command "mv" or "cp"?

cp - if you want to have a copy and keep the old one

mv - when you want to change the name or to move to another place

# Exercise 3 – question 4

Question 4: Suggest how can you count the number of files/directories (only the first level) in the folder `linux_exercise/my_data/`?

```
ls -1 | wc -l
```

```
ls | wc -l
```

```
ls | wc -w
```

# Exercise 3 – question 5

I wanted to get a list of files sorted by date in my current directory,

I typed: `ls -lT` and I got the following message:

`ls: option requires an argument -- 'T'`

Try '`ls --help`' for more information.

Question 5: Can you correct my command?

`ls -lt`

# Exercise 3

Send **to the cluster** a command asking to save to a file called list.txt a list of the files that are in the directory: linux\_exercise/my\_data.

Write the command in the file my\_linux\_exercise.

Need to write quotes if > in the command.

```
bsub -q new-all.q -J list.txt -o list-%J.o -e list-%J.e "ls linux_exercise/my_data/ > list.txt"
```

The second hit in blastp is XP\_002091389.1

The identity to the query is 99.524%