## **Introduction to NGS Cheat Sheet**

## **Linux Terminal**

**Note:** Everything in "< >" or the character "x" needs to be replaced.

Ex: file<filename> → file ILoveScience.txt. The character "n" symbolise any number.

Commands in Linux and R are cap-sensitive.

Helpful Commands		
Command	Action	
CTRL C	Stops running current command	
Arrow up/down	Look through previous commands	
man <command/>	Show manual for command	
pwd	Print working directory	
*	Matches anything. Ex: *.txt → any text file	
?	Matches a single character. Ex: p?.pdb → pi.pdb or	
	p5.pdb <b>not</b> propane.pdb	
q	Quit pages, including manuals and files.	
whoami	ID of current user	

Directory Commands	
Command	Action
cd <directoryname></directoryname>	Change directory
cd /	Go to root
cd	Go to the parent folder
~	Home directory
/	Parent directory
./	Current directory

Viewing, Moving and Copying		
Command	Action	
ls	List Directory Contents	
-l	Long list (displays lots of info)	
-l *.txt	Long list of text files	
-a	Show all	
-S	Sort by size	
-r	List in reverse the order	
Note: Can combine list commands. Ex: $ls - lr \rightarrow Long$ list but in reverse order		

## **Introduction to NGS Cheat Sheet**

Viewing, Moving and Copying (continued)		
Command	Action	
wc <filename></filename>	Word count. Prints number of lines, words, bytes and	
	file name	
wc -l <filename></filename>	Prints number of lines and file name only	
file <filename></filename>	Prints file type	
cat <filename></filename>	Shows file content	
head <filename> -n</filename>	From the top. "n" is the number of lines printed	
less <filename></filename>	Display file one page at a time.	
Spacebar	Next page	
р	Previous page	
/ <search_term></search_term>	Searches file	
q	Quit file	
rm <filename></filename>	Removes files	
rmdir <filename></filename>	Removes an empty directory	
mkdir <filename></filename>	Make a new directory	
mv <filename></filename>	Mayo file /directory into new directory	
<directory>/</directory>	Move file/directory into new directory	
cp <filename></filename>	Copy and rename new file	
<newfilename></newfilename>	Copy and rename new me	
cp <filename></filename>	Copy into new directory	
<directoryname>/</directoryname>	Copy into new un ectory	
grep <x> <filename></filename></x>	Search pattern in file. Where "x" is a search term	
-n <x> <filename></filename></x>	Displays line numbers	
-i <x> <filename></filename></x>	Revokes case-sensitive search	
-v <filename></filename>	Inverts the matches	
findtype d	Search for a directory	
-type f	Search for a file	
-name <filename></filename>	Searches the file names	
-name *.txt	Searches the text file names	

<b>Sorting &amp; Piping</b> (the pipe symbol " " is on the keyboard above the enter key)		
Command	Action	
sort -n <filename></filename>		
command_a   command_b	command_a's output becomes command_b's input	
command_a > file.txt	command_a's output is written to a file called file.txt	
command_a < input.txt	command_a gets the input from a file called input.txt	