1. Data for analysis

>Download roommate's results (Illumina single-end sequencing run)

Filename:

http://ftp.sra.ebi.ac.uk/vol1/fastg/SRR170/001/SRR1705851/

>Make fasta file with reference sequence

Filename: reference.fasta

https://www.ncbi.nlm.nih.gov/nuccore/KF848938.1?report=fasta

 $>\!\!\text{Download fastq data for the three controls (from sequencing of isogenic reference samples) from SRA FTP:}$

using

wget <link>

SRR1705858: ftp://ftp.sra.ebi.ac.uk/vol1/fastq/SRR170/008/SRR1705858/SRR1705858.fastq.gz saved as C58.fastq.gz saved as C59.fastq.gz saved as C59.fastq.gz saved as C59.fastq.gz saved as C60.fastq.gz saved as C60.fastq.gz saved as C60.fastq.gz

Check the length of referense FASTA

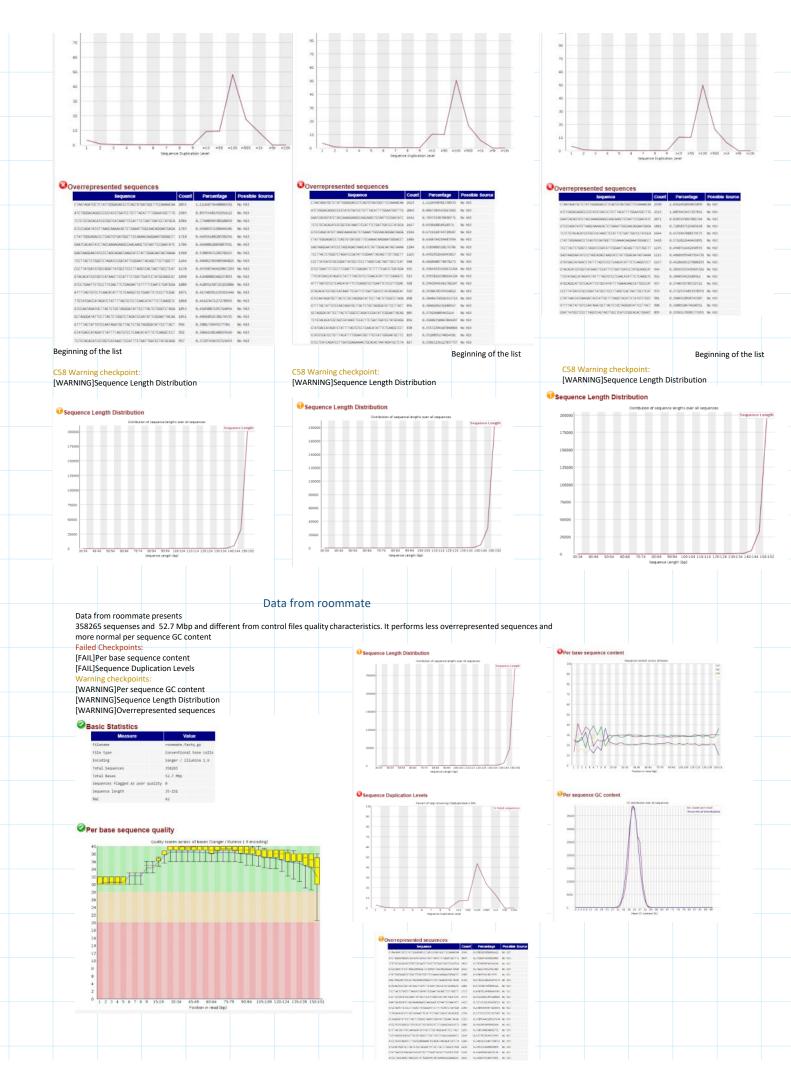
> wc reference.fasta 1794 smb = about 550 AA

Count the lines for initial fastq.gz files

zcat {filename} | wc -l

```
(bioinf_practice) maria@DESKTOP-VKN7MM4:~/bioinformatics_practice/IB_Practice_Project2/rawdata$ zcat C58.fastq.gz | wc -1 1026344 (bioinf_practice) maria@DESKTOP-VKN7MM4:~/bioinformatics_practice/IB_Practice_Project2/rawdata$ zcat C59.fastq.gz | wc -1 933308 (bioinf_practice) maria@DESKTOP-VKN7MM4:~/bioinformatics_practice/IB_Practice_Project2/rawdata$ zcat C60.fastq.gz | wc -1 999856 (bioinf_practice) maria@DESKTOP-VKN7MM4:~/bioinformatics_practice/IB_Practice_Project2/rawdata$ zcat roommate.fastq.gz | wc -1 1433060
```





36 ☐ Overrepresented sequences								
14 12 10				Sequence Chemina (E.C.) in transacci tractions from the ACC parameters are traction assistant interior has tractional accordation and traction and an are	Court Percentage Provide Source CAMANA SHIP CONTRACTORNAL SE VID PORTER SHIP CONTRACTORNAL SE VID PORTER SHIP CONTRACTORNAL SE VID PORTER SHIP CONTRACTORNAL SHIP CON			
0				CHECKER STOLENS AND RESERVED TO THE RESERVED AND THE RESE	CATTORN DOS C.TELLIFECTURE N. EXT. TRACET DOS C.TELLIFECTURE N. EXT.			
0		45-49 80-84 75-79 90-84 105-109 1 Position in read (bp.)	120124 135139 150151	econtential processor for records in selection for	THOST (5) 6.4000(24004)36 is in: 10.10.0 DOS 6.4000(240)36 is in: 0.000000 Link 6.1000(0004)30 is in: 0.000000 Link 6.1000(0004)30 is in: 0.000000 Link 6.1000(0004)30 is in: 0.000000 Link 6.1000(00000)30 is in:			
				CONDITION TO THE RESIDENCE OF THE PERSON OF	ANALY LOS CLAMPAGNICULES EL UL ACADITI DES CLAMPAGNICULES EL UL LICIARI DES CLAMPAGNICULES EL UL LICIARIO DE CAMPAGNICULES EL UL LICIARIO DE CAMPAG			
				EXCERNATION TO A SECURITION OF THE TOTAL OF	ATOCTA LINE 6, PROSEDENTATION IN INT GEORGE 1200 SCHWINGERSTEINE IN INT GEORGE 1200 SCHWINGERSTEIN IN INT CANADA LINE SCHWINGERSTEIN IN INT CANADA LINE SCHWINGERSTEIN IN INT			
				EXCERNICIONACION REFORMACION/CACCOR/CACCOR/	Annaced state distancementation of the second of the secon			
				Beginning of the li	st			

Points for discussion

1 ноября 2023 г. 19:27

1 ноября 2023 г.

19:22

Virus strain: A/Hong Kong/4801/2014 (H3N2) //What about vaccination against this strain:

(Need to Find out what strains were in this season's vaccine. Was that one of the flu strains covered by this vaccine?)

// What about epitopes:

Munoz, Deem 2004

https://drive.google.com/file/d/1xe5-4LxIV4bO4mX6jhvrMAqtpOpkWsXm/view

Structure and receptor binding preferences of recombinant human A(H3N2) virus hemagglutinins

https://www.rcsb.org/structure/4WEA