Galaxy hands-on for NGS data analysis

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Introduction to Bioinformatics using the eBioKit Platform

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Exercise 1: Map cleaned Illumina reads against a reference sequence

- upload the read file 'mac-18_noad.fastq'
- 2. upload the reference file 'peach_chloro.fa'
- 3. convert the score system
- 4. check the quality of the read sequences (statistics and graphics)
- 5. map the reads onto the reference sequence
- 6. convert from bam to sam file
- 7. export sam file
- 8. visualize result with 'table'



Exercise 2: Clean and map Illumina reads to the host and pathogen reference sequence.



- 1.upload the read file 'mac18red.fastq'
 2.upload the reference file
 'peach_chloro.fa'
 3.upload the reference file 'PLMV_PC-C40.fasta'
- 4.convert the score system5.check the quality of the read sequences (statistics and graphics)6.trim adaptor sequence7.map the reads onto the reference sequences
- 8.convert from bam to sam file 9.export sam file

10. visualize result with 'table'