Genome Skimming Workshop 2024

Day 1
1. Intro
2. Section 1 – Configure Hydra
    a. Configure Hydra
3. Section 2 – Sequence Read Archive
    a. Assign groups and SRAs
    b. Download SRA
    c. Convert SRA
4. Section 3 – Quality Control and Trimming
    a. FastQC
    b. fastp
    c. FastQC
5. Section 4 – Assembling Reads
    a. SPAdes
    b. GetOrganelle

Day 2
6. Lecture: Assembly
7. Section 5 – Annotation
    a. MitoFinder
    b. MITOS
8. Section 6 – Map to Reference and Download
    a. Bowtie2
    b. Download Samples

Day 3
9. Lecture: Annotation and Read Mapping Lecture
10. Section 7 – Geneious
11. Discuss and work on Group Projects

Day 4
12. Section 8 – NCBI
13. Work on Group Projects

Day 5
14. Present Group Projects
15. Questions, Discussions