

fastp

↪ input

2_Reads/1_Untrimmed/{sample}_1.fastq.gz
2_Reads/1_Untrimmed/{sample}_2.fastq.gz

output →

2_Reads/2_Trimmed/{sample}_trimmed_1.fastq.gz
2_Reads/2_Trimmed/{sample}_trimmed_2.fastq.gz
2_Reads/3_fastp_results/{sample}.html
2_Reads/3_fastp_results/{sample}.json

index_ref

↪ input

1_References

output →

1_References/CattedRefs.fna.gz
1_References/CattedRefs.fna.gz.rev.2.bt2l

map_to_ref

↪ input

1_References/CattedRefs.fna.gz
1_References/CattedRefs.fna.gz.rev.2.bt2l
2_Reads/2_Trimmed/{sample}_trimmed_1.fastq.gz
2_Reads/2_Trimmed/{sample}_trimmed_2.fastq.gz

output →

2_Reads/4_Host_removed/{sample}_M_1.fastq
2_Reads/4_Host_removed/{sample}_M_2.fastq
3_Outputs/1_QC/1_BAMs/{sample}.bam
3_Outputs/1_QC/1_Host_BAMs/{sample}_host.bam

nonpareil

↪ input

2_Reads/4_Host_removed/{sample}_M_1.fastq
2_Reads/4_Host_removed/{sample}_M_2.fastq
3_Outputs/1_QC/1_BAMs/{sample}.bam

output →

3_Outputs/1_QC/3_nonpareil/{sample}.npo

coverM

↪ input

3_Outputs/1_QC/1_BAMs/CE-D2-V1-1_S39_L001_M.bam
3_Outputs/1_QC/3_nonpareil/CE-D2-V1-1_S39_L001_M.npo

output →

3_Outputs/1_QC/2_CoverM/coverM_mapped_host.tsv

all

↪ input

3_Outputs/1_QC/2_CoverM/coverM_mapped_host.tsv