## Supplementary Worksheet 1 - BioHansel

Geneviève Labbé et al

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## Detailed parameter settings for all programs used for validation

## Concordance Assessment - S. typhi

Command-lines for BioHansel and Snippy found in Nextflow workflow nf-biohansel-snippy-comparison

BioHansel command-line:

```
mkdir -p reads
ln -s `realpath *.fastq.gz` reads/
hansel \\
   -v \\
   -t 1 \\
   --min-kmer-freq $mincov \\
   -s $scheme_fasta \\
   -D reads/ \\
   -0 $summary_report \\
   -0 $detailed_report
```

## Parameters:

- -v verbose logging
- -t 1 run BioHansel with one CPU thread
- -D reads/ run BioHansel on reads symlinked to reads/ directory
- \$scheme\_fasta path to S. typhi BioHansel scheme
- \$mincov minimum kmer frequency value of 3, 6, 8
- \$summary\_report BioHansel summary report output file
- \$detailed\_report BioHansel detailed results output file

Snippy command-line:

```
snippy --prefix $accession \\
    --outdir $accession \\
```

```
--cpus 16 \\
--ram 16 \\
--mincov $mincov \\
--R1 $reads1 \\
--R2 $reads2 \\
--ref $ref_genbank \\
--tmpdir ./
```

- \$accession SRA run accession (sample name)
- mincov minimum coverage depth of 3, 6, 8
- \$reads1/\$reads2 forward and reverse paired-end Illumina reads paths
- \$ref\_genbank GenBank file for reference genome NC\_003198.1 (Salmonella enterica subsp. enterica serovar Typhi str. CT18, complete genome.)