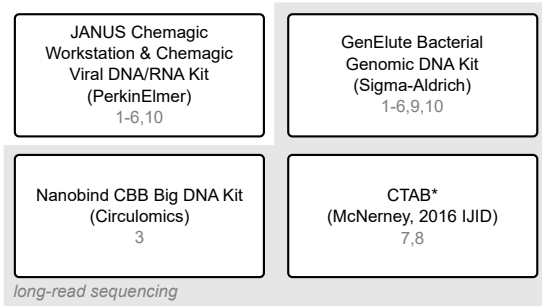


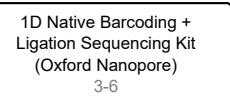
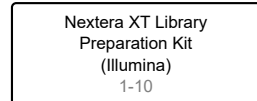
Genomic DNA Extraction



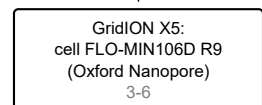
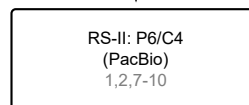
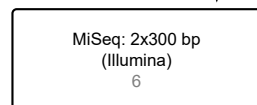
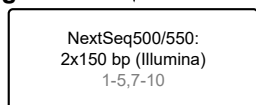
Assembly Groups

1. *L. pneumophila* (AUSMDU00010536); *L. monocytogenes* (AUSMDU00000224, AUSMDU00000235, AUSMDU00007774); *N. gonorrhoeae* (AUSMDU00010541); *N. meningitidis* (AUSMDU00005726); *S. enterica* (AUSMDU00010532, AUSMDU00010527, AUSMDU00010528, AUSMDU00010530, AUSMDU00010533); *S. pyogenes* (AUSMDU00010539)
2. *E. coli* (AUSMDU00002545); *S. enterica* (AUSMDU00010529); *S. pneumoniae* (AUSMDU00010538)
3. *E. coli* (AUSMDU00014361); *S. flexneri* (AUSMDU00010535); *S. sonnei* (AUSMDU00010534)
4. *S. enterica* (AUSMDU00010531, AUSMDU00008979)
5. *E. faecium* (AUSMDU00004167)
6. *K. pneumoniae* (AUSMDU00008079)
7. *M. chimaera* (AUSMDU00007395)
8. *M. tuberculosis* (AUSMDU00018547)
9. *N. meningitidis* (AUSMDU00010537)
10. *S. enterica* (AUSMDU00005056)

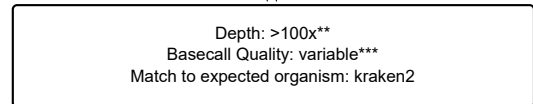
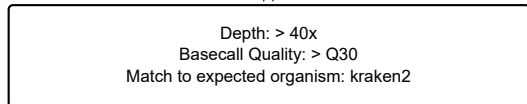
Library Construction



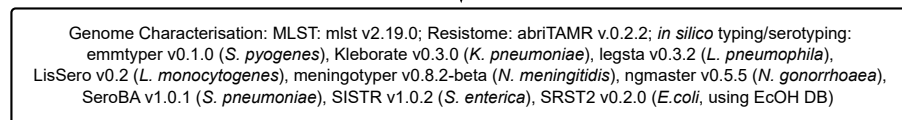
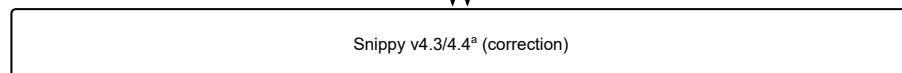
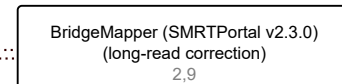
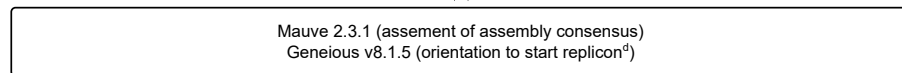
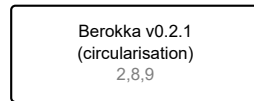
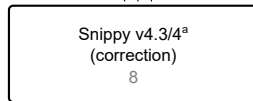
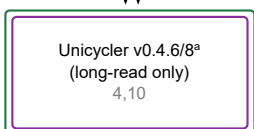
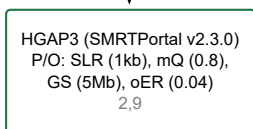
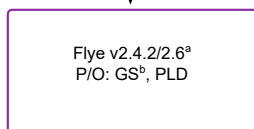
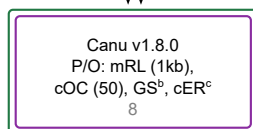
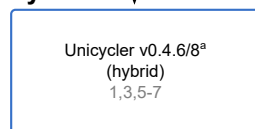
Sequencing



Quality Control



Assembly



Abbreviations and Footnotes: * Modifications to the published CTAB method are described in the methods section. **Nanopore data was filtered to 100x for the expected species size, preferencing quality and length equally using Filtlong v0.2.0; *** PacBio data was filtered using a minimum read quality [mQ] = 0.80; ^a multiple versions used - refer to the methods section and supplementary tables; P/O = parameters/options (that differ from default); mRL = minimum read length; cOR = corOutCoverage; GS = genome size (^b set as Mb closest to species average); cER = correctedErrorRate (^c set as 0.144 for Nanopore or 0.045 for PacBio data); PLD = plasmid flag used; SLR = seed read length; oER = overlapper error rate; ^d start replicon was *dnaA* for chromosome sequences and *rep* for plasmid sequences, based on prokka annotations.