

Illumina Short Read Assembly and Annotation (Eukaryotic)

Short read assembly was performed with Unicycler¹. Assembly statistics were recorded with QUAST². Assembly statistics are now available for all samples in the "Assembly Metrics.tsv" file. Samples were annotated with Funannotate³. Assembled and annotated genomes can be found in the "SampleName.fasta", "SampleName.gbk", and "SampleName.gff" files, respectively.

Tool	Version	Parameters
unicycler	0.5.0	default parameters
quast	5.2.0	default parameters
funannotate	1.8.15	interproscan and eggnog mapper enabled

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¹ Unicycler: Resolving bacterial genome assemblies from short and long sequencing reads Wick RR, Judd LM, Gorrie CL, Holt KE (2017) Unicycler: Resolving bacterial genome assemblies from short and long sequencing reads. PLOS Computational Biology 13(6): e1005595. https://doi.org/10.1371/journal.pcbi.1005595

² Alexey Gurevich, Vladislav Saveliev, Nikolay Vyahhi and Glenn Tesler. QUAST: quality assessment tool for genome assemblies, Bioinformatics (2013) 29 (8): 1072-1075. doi: 10.1093/bioinformatics/btt086

³ Palmer J (2017) Funannotate: Fungal genome annotation scripts. https://github.com/nextgenusfs/funannotate