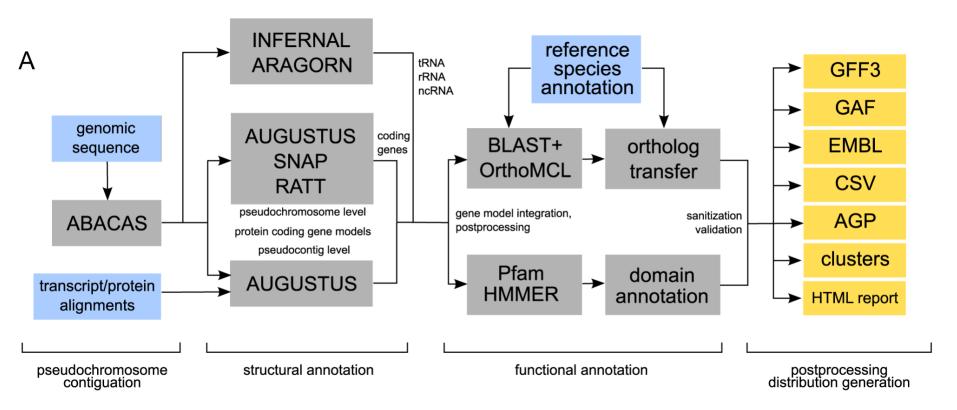
Companion Reference Based Genome Annotation and analysis of parasite genomes

https://companion.sanger.ac.uk/ https://doi.org/10.1093/nar/gkw292

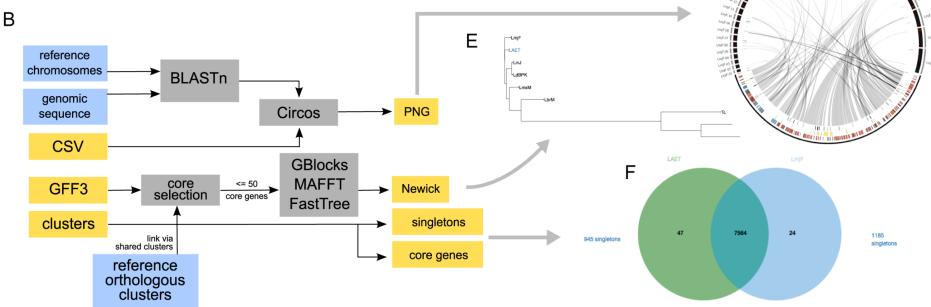
- Web service pre-loaded with EuPathDB and GeneDB genomes
- Produces an annotation of your assembled genome
 - Gene models (protein coding, ncRNA)
- Performs some analyses between your genome and reference
 - Visualization
 - Species tree
 - synteny

ANNOTATION WORKFLOW



- INPUT assembled genome (contigs, scaffolds or chromosomes)
- Pseudochromosome contiguation Orient genomic sequences to match chromosome structure of the reference
- Structural annotation produced gene models (homology and ab initio)
- Functional annotation info about the activity/purpose/activity of the gene product (OrthoMCL and PfamHMMER)
- OUTPUT files in yellow

Analysis and Visualization



- VISUALIZATION and ANALYSES
 - Circos Synteny plots between your genome and reference
 - Species tree
 - Venn diagram of shared and species specific genes.

Upload genomic sequences in Fasta format Choose params for the annotation run Start the run Look at results tomorrow