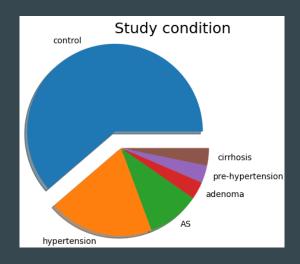
CMG Lab Report Group 5

•••

SGB15132

Our Data

Completeness				Redundancy		
Min (%)	Average (%)	Max (%)	Min (%)	Average (%)	Max (%)	
97.32	98.2	99.33	0.0	0.57	2.25	



Methods

Gene Annotation	 Prokka
Pangenome Building	 Roary (Core Gene Alignment)
Tree Building	 FastTree Web Visualiser <i>(iTOL)</i>
Additional Tools	 PhyloPhlAn

Hypothetical proteins

Min Avarage Max

1190 1517.6 2149

Coding sequences

Min Avarage Max

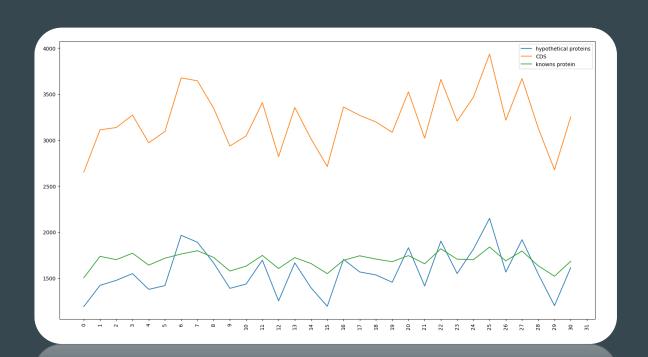
2651 3220.9 3935

Known proteins

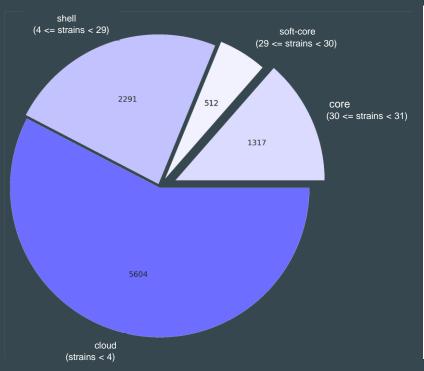
Min Avarage Max

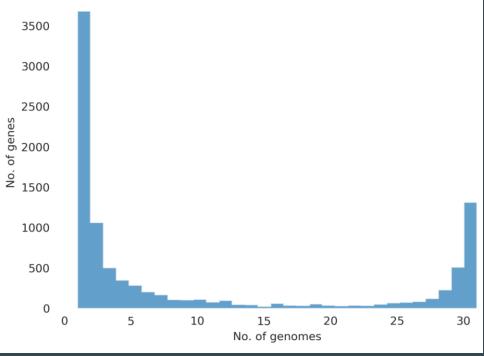
1502 1691.1 1837

Prokka results

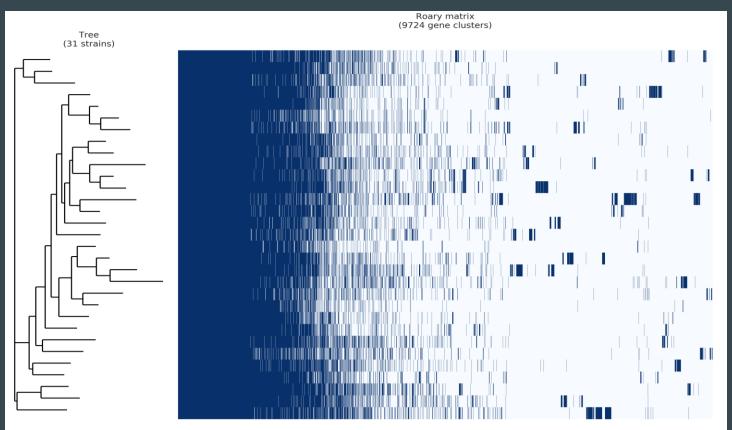


Pangenome analysis

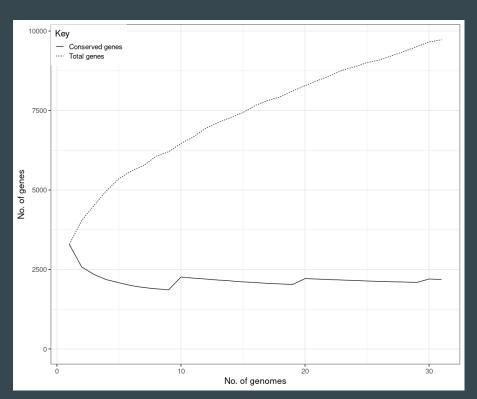


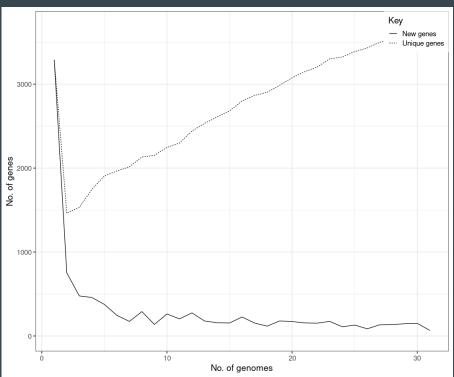


Presence-absence pangenome matrix

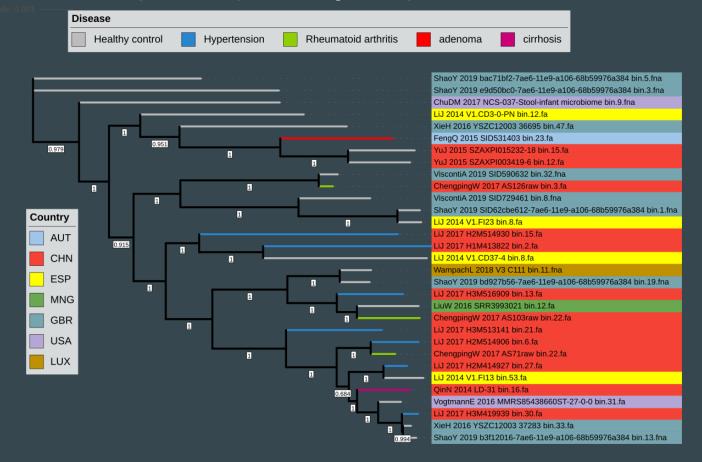


Pangenome Genes Comparison





Core gene alignment phylogenetic tree



Conclusion

Taxonomic assignment:

```
k__Bacteria|p__Firmicutes|c__Clostridia|o__Eubacteriales|f__Oscillospiraceae|g__Flavonifractor|s__Flavonifractor_plautii|t__SGB15132
```

- no notable differences between the genomes
- future work: run again the pipeline with more genomes and different parameters

Thank you for your kind attention!