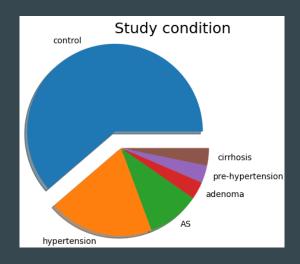
# CMG Lab Report Group 5

•••

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	 FastTreeMP Web Visualiser <i>(iTOL)</i>
Additional Tools	 PhyloPhlAn

#### Hypothetical proteins

Min Avarage Max

1190 1517.6 2149

#### Coding sequences

Min Avarage Max

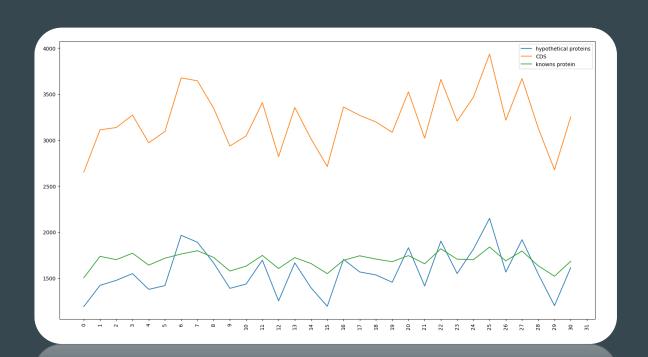
2651 3220.9 3935

#### Known proteins

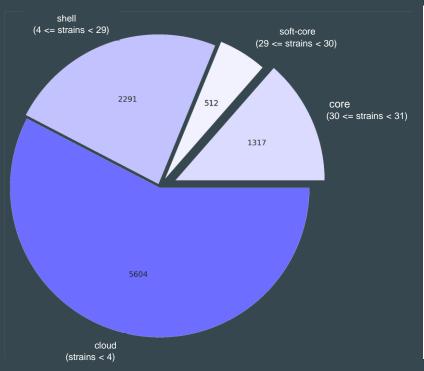
Min Avarage Max

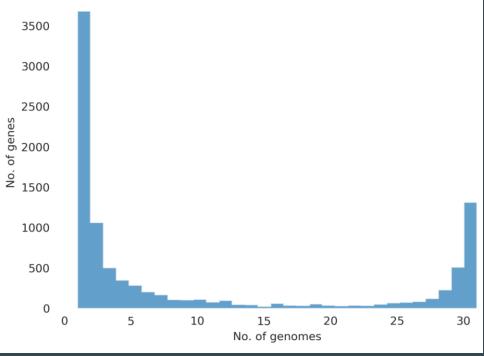
1502 1691.1 1837

### Prokka results

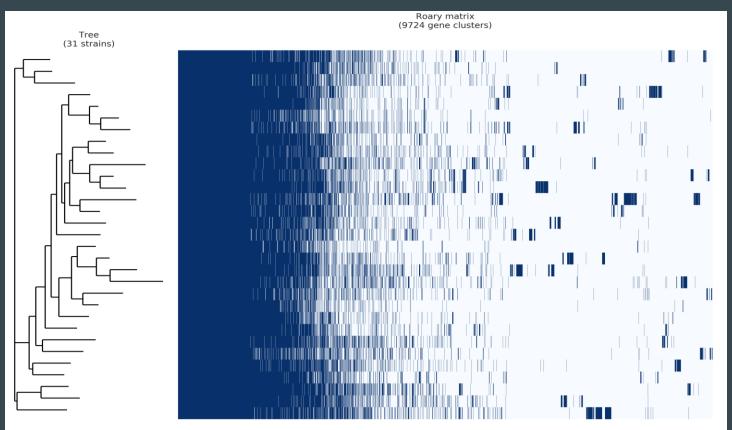


### Pangenome analysis

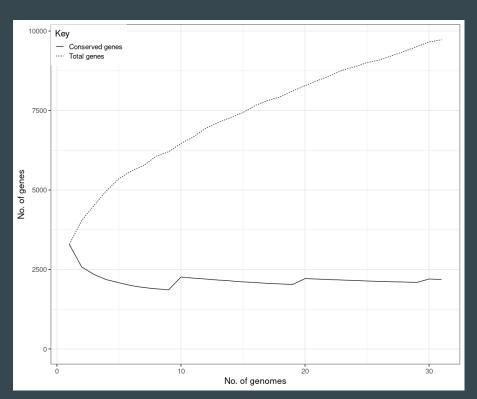


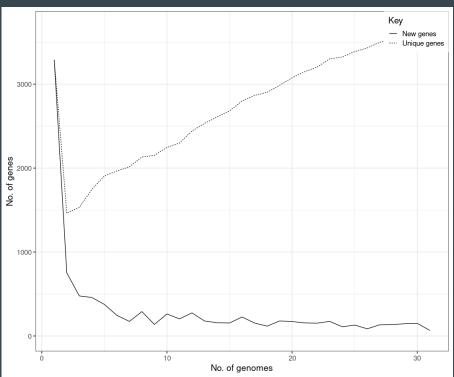


## Presence-absence pangenome matrix

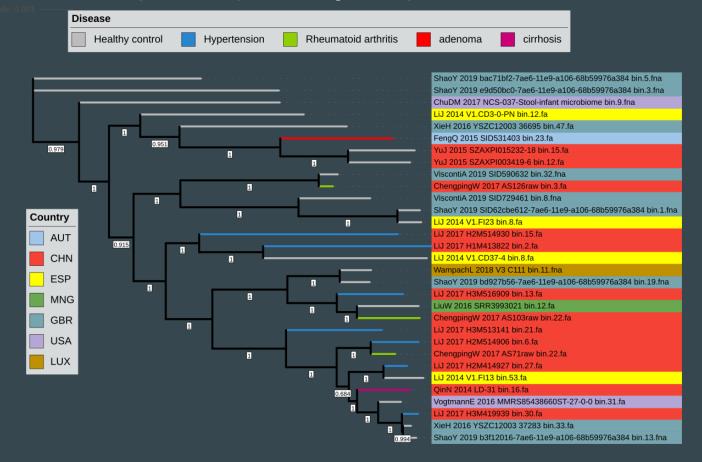


# Pangenome Genes Comparison





#### 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!