**Practical 4: Phylogenomics**

Group no. 11

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**Exercise 1.**

1. Found the multi FASTA files with protein sequences for each genome.

2. Configured BLAST.

3. Created BLAST databases for each of the proteomes.

4. Chose 09.fa.txt.pfa as the reference proteome and performed BLAST search against other proteomes, generating XML output files.

5. Created XML parser (script: blastResultParser\_modified\_best.py) and parsed the four output files (output: best\_orthologs\_17, best\_orthologs\_24, best\_orthologs\_49, best\_orthologs\_51)

6. Combined the best hits into one cluster file (script: cluster\_maker.py, output: clusters)

7. ?