20 fungal genomes

- BRH
- Inparanoid
- OrthoMCL
- Phylogeny

Intersection of the four methods

S1,S2,S3

S1,S2,S3,S4

S1,S2,S3,S4

S1,S2,S3,S5

Foreach intersection:
- Alignment with Muscle
- Construction of HMM profiles with hmmer

Construction of the HMM database

Similarity search of sequences without group against HMM database

Analysis of the best result:
If E-value $\leq 10^{-10}$ → S1,S2,S3,S4
Else → S1,S2,S3

Sequences absent from the intersections

S4

S5