

C. thermophilum proteome
T. terrestris proteome
T. heterothallica proteome

Sordariomycetes
20 proteomes



EggNOG
Pipeline

17,326 orthologous groups

2,064 single copy, universal
orthologous groups

MUSCLE

2,064 alignments

DYSLANPDTLT
DYSLNNPDTLT
DYSLNNPDTLT
DYSLNNPDTLT
DYSLNNPDTLT
DYSLNNPDTLT
DYSLNNPDTLT
DYSLNNPDTLT

ProtPars

Ancestral sequences
Mutation biases in
Sordariomycetes tree



Residue scoring in
ctArx1 alignment

Thermo-neutral
Thermo-adaptive
mutations

Experimental
validation

