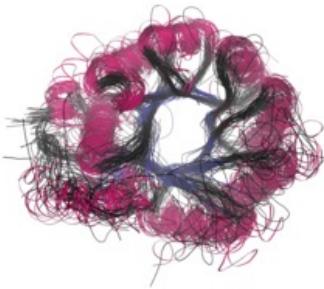


Structural superimposition & sequence alignments from agglomerative clustering



+



FunFam 1
FunFam 2
FunFam 3

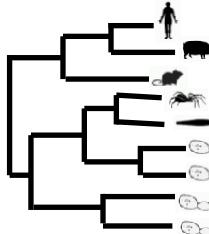
Structurally informed multiple sequence alignment



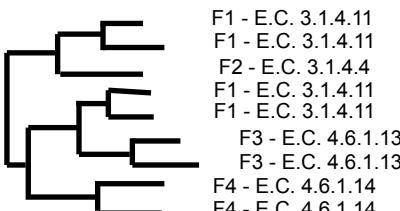
Filtered alignment maintaining UniProt reviewed entries with function annotation



Generate phylogenetic tree using TreeBest, combining ML and taxonomic lineage tree



Add functional information i.e. E.C. numbers



Calculate ancestral character estimations for each node in the tree. Using max likelihood at each node, count changes from root to branch.

