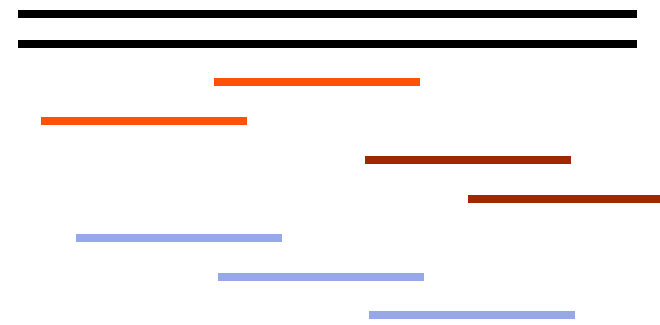
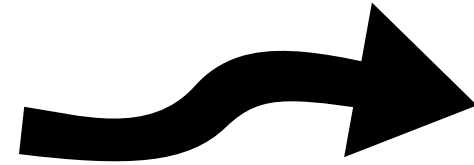
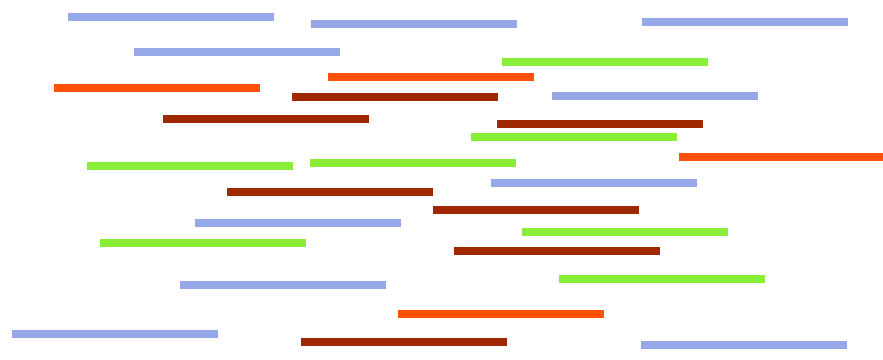


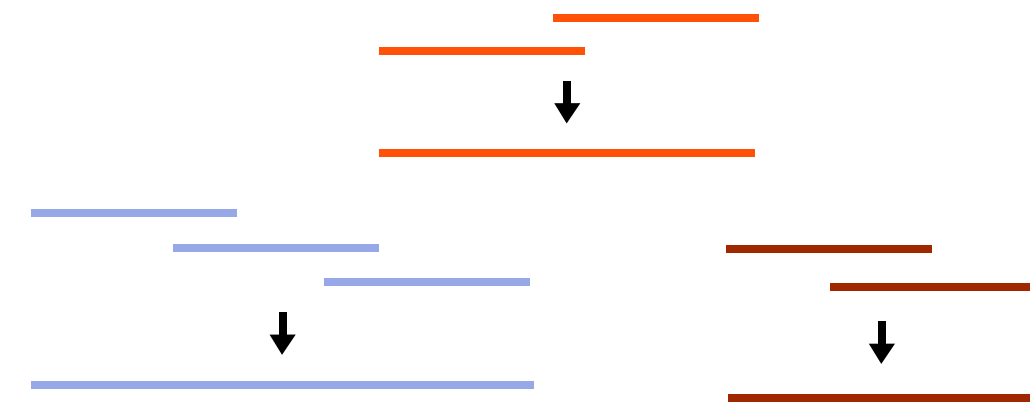
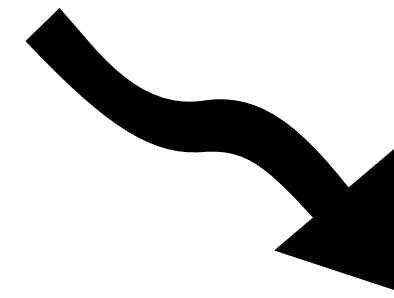
Alignment of metagenome reads
to reference NOG sequences

DIAMOND



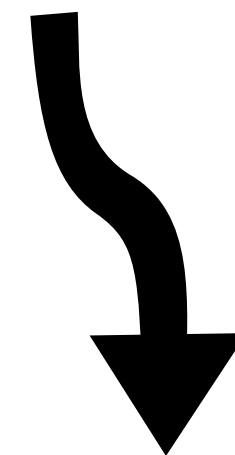
Gene-centric assembly of
reads per NOG

MEGAN6



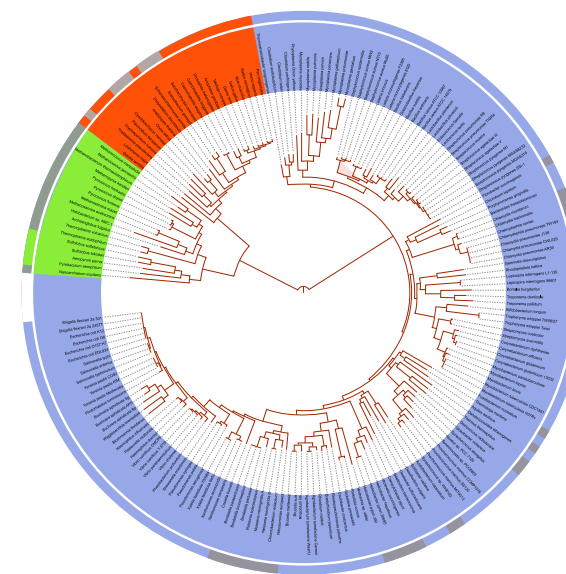
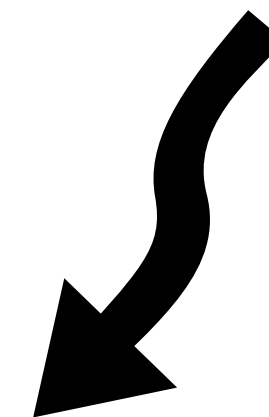
Multiple sequence
alignment

MAFFT

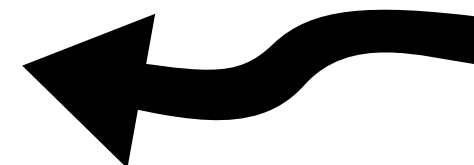


Phylogenetic
tree reconstruction

FastTree or *IQ-TREE*



Discard samples
Whole-metagenome assembly
and extraction of MAGs



"Magnetizing" trees to
detect lineages of interest

ETE3