

ADDITIONAL FILE 6: OTHER SHIFTS DETECTED IN COMPARTMENTALISED MRC TREE

Two-way shift detected in the compartmentalised MRC supertree but one-way in all-inclusive tree:

Hymenoptera (excl. Xyelidae) (+ve), and Xyelidae (–ve)

Shift detected in compartmentalised MRC supertree alone (i.e. where phylogeny conflicts with all-inclusive supertree)

Tenthredinidae (+ve)

Ichneumonoidea + Cynipoidea + Platygasteridae + Scelionidae + Proctotrupoidea + Chalcidoidea (+ve)

Chalcididae + Eupelmidae + Encyrtidae + Torymidae + Ormyridae + Agaonidae + Mymaridae + Signiphoridae + Mymarommatidae + Pteromalidae + Eulophidae + Elasmidae + Tetracampidae + Perilampidae + Eucharitidae + Leucospidae (+ve)

Diapiidae (+ve)