

## Supplementary Information S2: Newick format for representing phylogenetic trees

Figure 2 tree:

```
((((OMF:0.0553,(UG:0.0369,(YC:0.0232,MG:0.0267):0.0031):0.0211):0.0000,(SL:0.0581,Pm:0.0370):0.0166,(ZS:0.0553,RIR:0.0497):0.0059):0.0065):0.0126,(NH:0.0464,(Ts:0.0387,(Pu:0.0318,ABS:0.0182):0.0302,(LGG:0.0480,LMF:0.0420):0.0088):0.0037):0.0093):0.0120,(RW:0.1042,(FS:0.0506,(BL:0.0486,CBI:0.0364):0.0044):0.0360):0.0330);
```

Figure 3 tree:

```
(((((RIR:0.02572916666666665,NH:0.001270833333333346):0.009378906249999971,Ts:0.033621093750000025):0.002323660714285712,LMF:0.0444263928571428):0.00567578125000001,(((RW:0.0881517857142857,(Pu:0.06308333333333335,ABS:0.043916666666666646):0.007348214285714291):0.003942708333333322,LGG:0.0820572916666667):0.01197526041666662,OMF:0.06302473958333339):0.0037880859375000013,(FS:0.08198076923076919,ZS:0.08601923076923083):0.01602441406249997):0.002359374999999995):0.0017773437499999933,(MG:0.009096875000000011,(UG:0.01667613636363633,YC:0.04132386363636367):0.012403124999999994):0.0030917968750000108,(CBI:0.06696875,BL:0.14103125000000002):0.011796874999999957,(SL:0.024312500000000015,Pm:0.02968749999999978):0.03520312500000003):0.0021582031250000017);
```