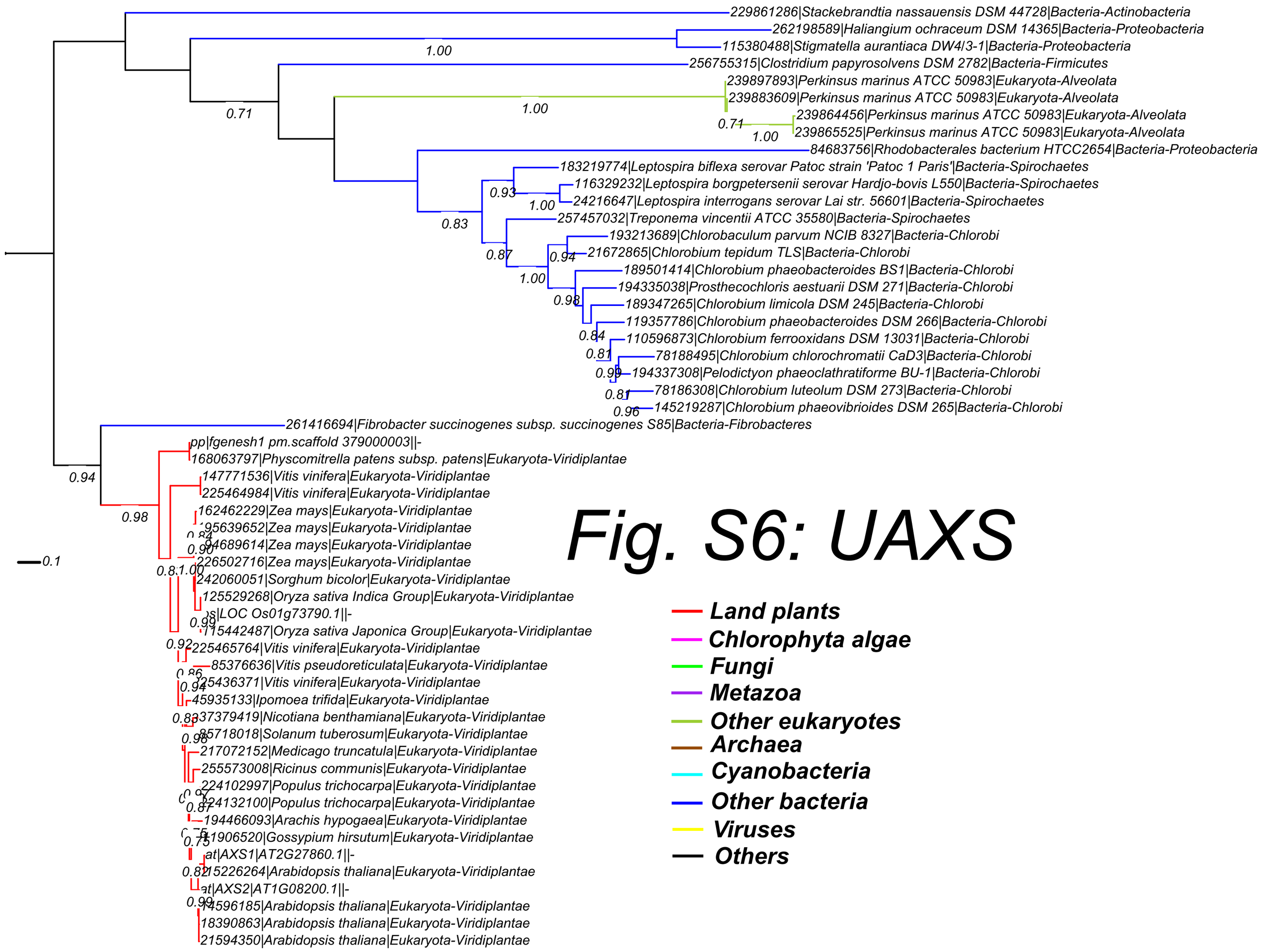
229861286|Stackebrandtia nassauensis DSM 44728|Bacteria-Actinobacteria
262198589|Haliangium ochraceum DSM 14365|Bacteria-Proteobacteria
115380488|Stigmatella aurantiaca DW4/3-1|Bacteria-Proteobacteria
256755315|Clostridium papyrosolvens DSM 2782|Bacteria-Firmicutes
239897893|Perkinsus marinus ATCC 50983|Eukaryota-Alveolata
239883609|Perkinsus marinus ATCC 50983|Eukaryota-Alveolata
239864456|Perkinsus marinus ATCC 50983|Eukaryota-Alveolata
239865525|Perkinsus marinus ATCC 50983|Eukaryota-Alveolata
84683756|Rhodobacterales bacterium HTCC2654|Bacteria-Proteobacteria
183219774|Leptospira biflexa serovar Patoc strain 'Patoc 1 Paris'|Bacteria-Spirochaetes
116329232|Leptospira borgpetersenii serovar Hardjo-bovis L550|Bacteria-Spirochaetes
24216647|Leptospira interrogans serovar Lai str. 56601|Bacteria-Spirochaetes
257457032|Treponema vincentii ATCC 35580|Bacteria-Spirochaetes
193213689|Chlorobaculum parvum NCIB 8327|Bacteria-Chlorobi
21672865|Chlorobium tepidum TLS|Bacteria-Chlorobi
189501414|Chlorobium phaeobacteroides BS1|Bacteria-Chlorobi
194335038|Prosthecochloris aestuarii DSM 271|Bacteria-Chlorobi
189347265|Chlorobium limicola DSM 245|Bacteria-Chlorobi
119357786|Chlorobium phaeobacteroides DSM 266|Bacteria-Chlorobi
110596873|Chlorobium ferrooxidans DSM 13031|Bacteria-Chlorobi
78188495|Chlorobium chlorochromatii CaD3|Bacteria-Chlorobi
194337308|Pelodictyon phaeoclathratiforme BU-1|Bacteria-Chlorobi
78186308|Chlorobium luteolum DSM 273|Bacteria-Chlorobi
145219287|Chlorobium phaeovibrioides DSM 265|Bacteria-Chlorobi
261416694|Fibrobacter succinogenes subsp. succinogenes S85|Bacteria-Fibrobacteres
pp|fgenesh1 pm.scaffold 379000003||-
168063797|Physcomitrella patens subsp. patens|Eukaryota-Viridiplantae
147771536|Vitis vinifera|Eukaryota-Viridiplantae
225464984|Vitis vinifera|Eukaryota-Viridiplantae
162462229|Zea mays|Eukaryota-Viridiplantae
195639652|Zea mays|Eukaryota-Viridiplantae
194689614|Zea mays|Eukaryota-Viridiplantae
226502716|Zea mays|Eukaryota-Viridiplantae
242060051|Sorghum bicolor|Eukaryota-Viridiplantae
125529268|Oryza sativa Indica Group|Eukaryota-Viridiplantae
os|LOC Os01g73790.1||-
115442487|Oryza sativa Japonica Group|Eukaryota-Viridiplantae
225465764|Vitis vinifera|Eukaryota-Viridiplantae
85376636|Vitis pseudoreticulata|Eukaryota-Viridiplantae
225436371|Vitis vinifera|Eukaryota-Viridiplantae
45935133|Ipomoea trifida|Eukaryota-Viridiplantae
337379419|Nicotiana benthamiana|Eukaryota-Viridiplantae
85718018|Solanum tuberosum|Eukaryota-Viridiplantae
217072152|Medicago truncatula|Eukaryota-Viridiplantae
255573008|Ricinus communis|Eukaryota-Viridiplantae
224102997|Populus trichocarpa|Eukaryota-Viridiplantae
224132100|Populus trichocarpa|Eukaryota-Viridiplantae
194466093|Arachis hypogaea|Eukaryota-Viridiplantae
211906520|Gossypium hirsutum|Eukaryota-Viridiplantae
at|AXS1|AT2G27860.1||-
215226264|Arabidopsis thaliana|Eukaryota-Viridiplantae
at|AXS2|AT1G08200.1||-
14596185|Arabidopsis thaliana|Eukaryota-Viridiplantae
18390863|Arabidopsis thaliana|Eukaryota-Viridiplantae
21594350|Arabidopsis thaliana|Eukaryota-Viridiplantae
1.00
0.71
1.00
0.71
1.00
0.83
0.93
1.00
0.87
0.94
1.00
0.98
0.84
0.81
0.99
0.81
0.96
0.94
0.98
0.1
0.84
0.90
0.81
1.00
0.99
0.92
0.86
0.94
0.83
0.98
0.97
0.87
0.75
0.82
0.99
Land plants
Chlorophyta algae
Fungi
Metazoa
Other eukaryotes
Archaea
Cyanobacteria
Other bacteria
Viruses
Others

Fig. S6: UAXS