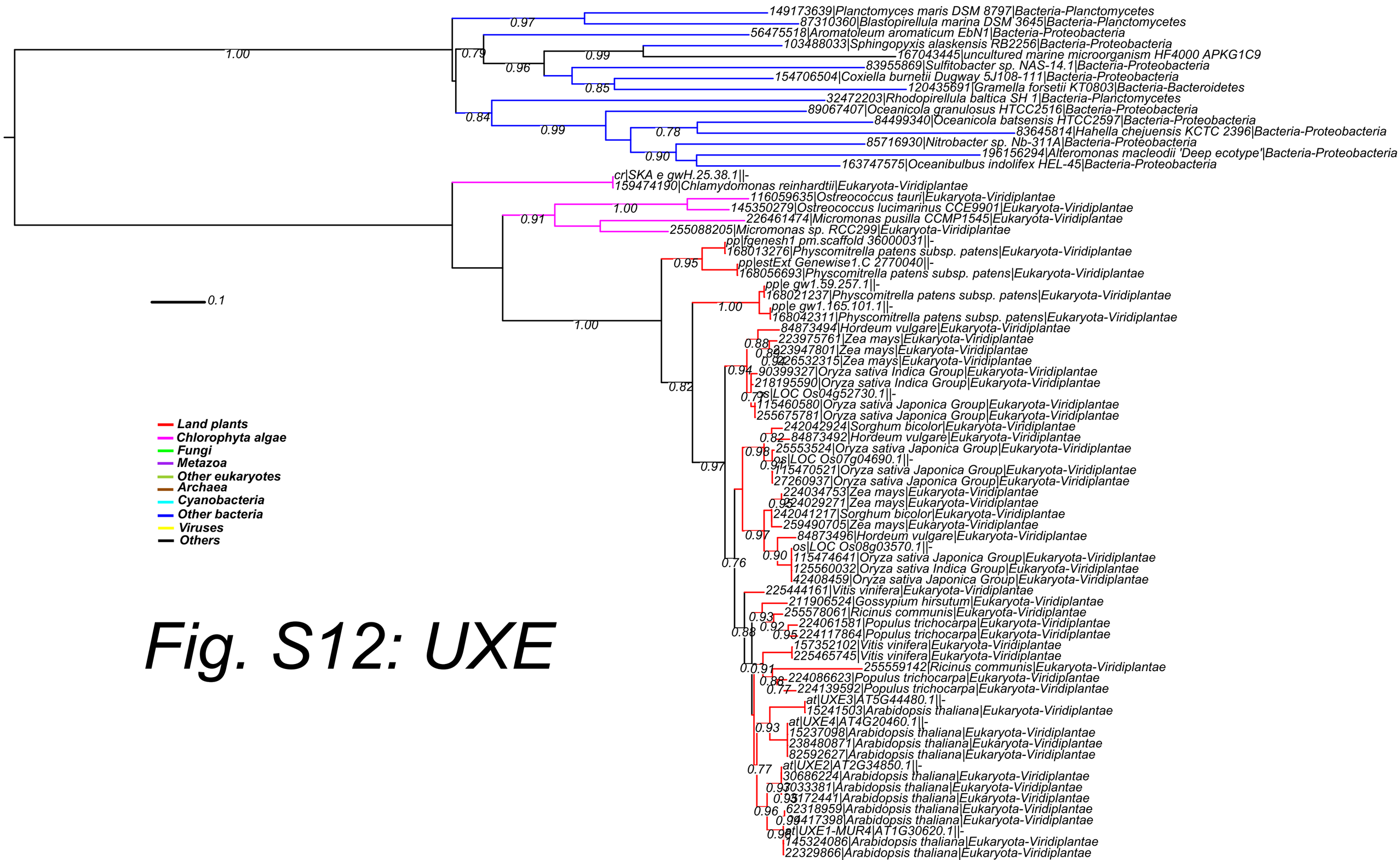
149173639|Planctomyces maris DSM 8797|Bacteria-Planctomycetes
87310360|Blastopirellula marina DSM 3645|Bacteria-Planctomycetes
56475518|Aromatoleum aromaticum EbN1|Bacteria-Proteobacteria
103488033|Sphingopyxis alaskensis RB2256|Bacteria-Proteobacteria
167043445|uncultured marine microorganism HF4000 APKG1C9
83955869|Sulfitobacter sp. NAS-14.1|Bacteria-Proteobacteria
154706504|Coxiella burnetii Dugway 5J108-111|Bacteria-Proteobacteria
120435691|Gramella forsetii KT0803|Bacteria-Bacteroidetes
32472203|Rhodopirellula baltica SH 1|Bacteria-Planctomycetes
89067407|Oceanicola granulosus HTCC2516|Bacteria-Proteobacteria
84499340|Oceanicola batsensis HTCC2597|Bacteria-Proteobacteria
83645814|Hahella chejuensis KCTC 2396|Bacteria-Proteobacteria
85716930|Nitrobacter sp. Nb-311A|Bacteria-Proteobacteria
196156294|Alteromonas macleodii 'Deep ecotype'|Bacteria-Proteobacteria
163747575|Oceanibulbus indolifex HEL-45|Bacteria-Proteobacteria
cr|SKA e gwH.25.38.1||-
159474190|Chlamydomonas reinhardtii|Eukaryota-Viridiplantae
116059635|Ostreococcus tauri|Eukaryota-Viridiplantae
145350279|Ostreococcus lucimarinus CCE9901|Eukaryota-Viridiplantae
226461474|Micromonas pusilla CCMP1545|Eukaryota-Viridiplantae
255088205|Micromonas sp. RCC299|Eukaryota-Viridiplantae
pp|fgenesh1 pm.scaffold 36000031||-
168013276|Physcomitrella patens subsp. patens|Eukaryota-Viridiplantae
pp|estExt Genewise1.C 2770040||-
168056693|Physcomitrella patens subsp. patens|Eukaryota-Viridiplantae
pp|e gw1.59.257.1||-
168021237|Physcomitrella patens subsp. patens|Eukaryota-Viridiplantae
pp|e gw1.165.101.1||-
168042311|Physcomitrella patens subsp. patens|Eukaryota-Viridiplantae
84873494|Hordeum vulgare|Eukaryota-Viridiplantae
223975761|Zea mays|Eukaryota-Viridiplantae
223947801|Zea mays|Eukaryota-Viridiplantae
226532315|Zea mays|Eukaryota-Viridiplantae
90399327|Oryza sativa Indica Group|Eukaryota-Viridiplantae
218195590|Oryza sativa Indica Group|Eukaryota-Viridiplantae
os|LOC Os04g52730.1||-
115460580|Oryza sativa Japonica Group|Eukaryota-Viridiplantae
255675781|Oryza sativa Japonica Group|Eukaryota-Viridiplantae
242042924|Sorghum bicolor|Eukaryota-Viridiplantae
84873492|Hordeum vulgare|Eukaryota-Viridiplantae
25553524|Oryza sativa Japonica Group|Eukaryota-Viridiplantae
os|LOC Os07g04690.1||-
115470521|Oryza sativa Japonica Group|Eukaryota-Viridiplantae
27260937|Oryza sativa Japonica Group|Eukaryota-Viridiplantae
224034753|Zea mays|Eukaryota-Viridiplantae
224029271|Zea mays|Eukaryota-Viridiplantae
242041217|Sorghum bicolor|Eukaryota-Viridiplantae
259490705|Zea mays|Eukaryota-Viridiplantae
84873496|Hordeum vulgare|Eukaryota-Viridiplantae
os|LOC Os08g03570.1||-
115474641|Oryza sativa Japonica Group|Eukaryota-Viridiplantae
125560032|Oryza sativa Indica Group|Eukaryota-Viridiplantae
42408459|Oryza sativa Japonica Group|Eukaryota-Viridiplantae
225444161|Vitis vinifera|Eukaryota-Viridiplantae
211906524|Gossypium hirsutum|Eukaryota-Viridiplantae
255578061|Ricinus communis|Eukaryota-Viridiplantae
224061581|Populus trichocarpa|Eukaryota-Viridiplantae
224117864|Populus trichocarpa|Eukaryota-Viridiplantae
157352102|Vitis vinifera|Eukaryota-Viridiplantae
225465745|Vitis vinifera|Eukaryota-Viridiplantae
255559142|Ricinus communis|Eukaryota-Viridiplantae
224086623|Populus trichocarpa|Eukaryota-Viridiplantae
224139592|Populus trichocarpa|Eukaryota-Viridiplantae
at|UXE3|AT5G44480.1||-
15241503|Arabidopsis thaliana|Eukaryota-Viridiplantae
at|UXE4|AT4G20460.1||-
15237098|Arabidopsis thaliana|Eukaryota-Viridiplantae
238480871|Arabidopsis thaliana|Eukaryota-Viridiplantae
82592627|Arabidopsis thaliana|Eukaryota-Viridiplantae
at|UXE2|AT2G34850.1||-
30686224|Arabidopsis thaliana|Eukaryota-Viridiplantae
73033381|Arabidopsis thaliana|Eukaryota-Viridiplantae
73172441|Arabidopsis thaliana|Eukaryota-Viridiplantae
62318959|Arabidopsis thaliana|Eukaryota-Viridiplantae
79417398|Arabidopsis thaliana|Eukaryota-Viridiplantae
at|UXE1-MUR4|AT1G30620.1||-
145324086|Arabidopsis thaliana|Eukaryota-Viridiplantae
22329866|Arabidopsis thaliana|Eukaryota-Viridiplantae
0.1
Land plants
Chlorophyta algae
Fungi
Metazoa
Other eukaryotes
Archaea
Cyanobacteria
Other bacteria
Viruses
Others

Fig. S12: UXE