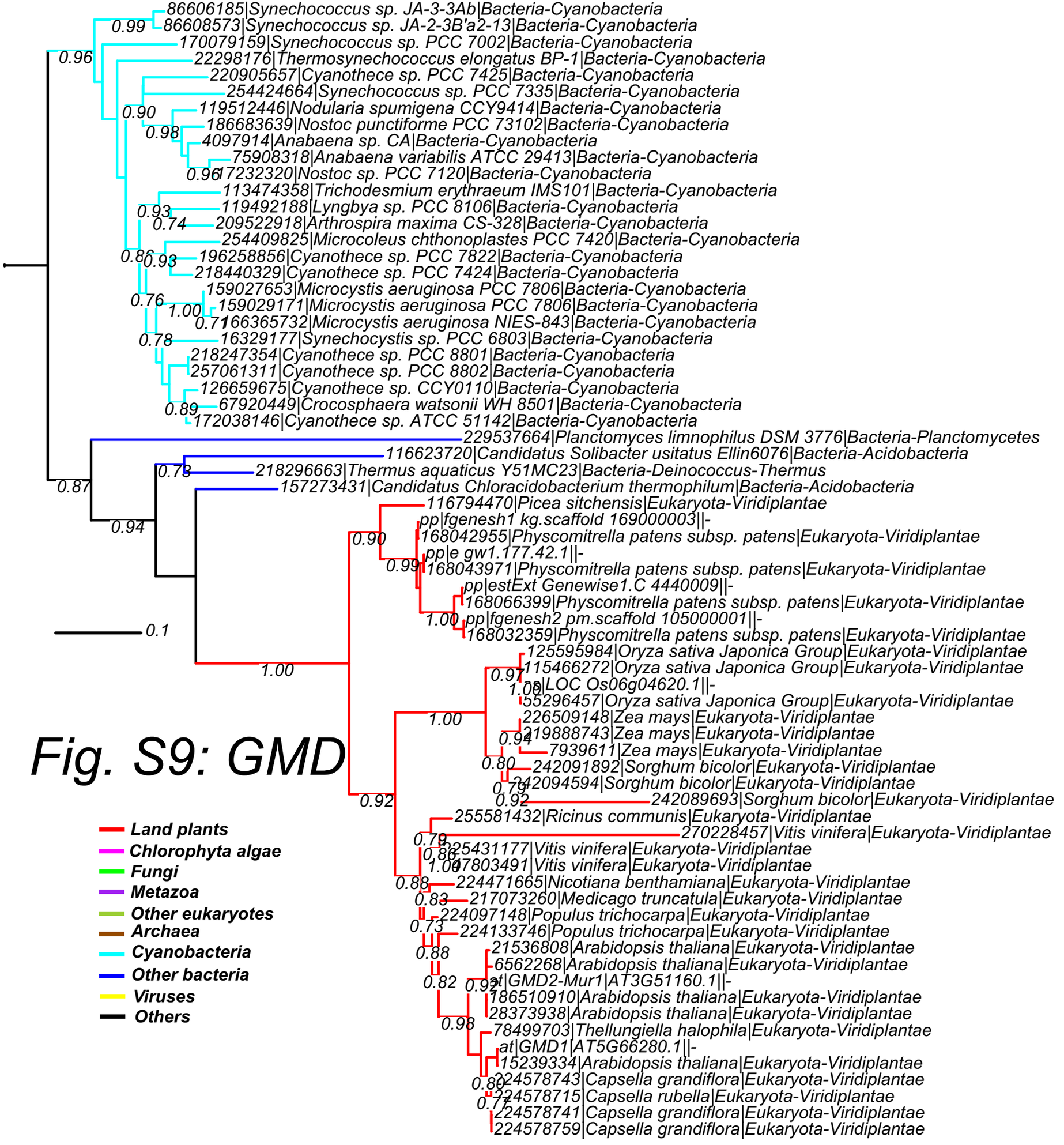
86606185|Synechococcus sp. JA-3-3Ab|Bacteria-Cyanobacteria
86608573|Synechococcus sp. JA-2-3B'a2-13|Bacteria-Cyanobacteria
170079159|Synechococcus sp. PCC 7002|Bacteria-Cyanobacteria
22298176|Thermosynechococcus elongatus BP-1|Bacteria-Cyanobacteria
220905657|Cyanothece sp. PCC 7425|Bacteria-Cyanobacteria
254424664|Synechococcus sp. PCC 7335|Bacteria-Cyanobacteria
119512446|Nodularia spumigena CCY9414|Bacteria-Cyanobacteria
186683639|Nostoc punctiforme PCC 73102|Bacteria-Cyanobacteria
4097914|Anabaena sp. CA|Bacteria-Cyanobacteria
75908318|Anabaena variabilis ATCC 29413|Bacteria-Cyanobacteria
17232320|Nostoc sp. PCC 7120|Bacteria-Cyanobacteria
113474358|Trichodesmium erythraeum IMS101|Bacteria-Cyanobacteria
119492188|Lyngbya sp. PCC 8106|Bacteria-Cyanobacteria
209522918|Arthrospira maxima CS-328|Bacteria-Cyanobacteria
254409825|Microcoleus chthonoplastes PCC 7420|Bacteria-Cyanobacteria
196258856|Cyanothece sp. PCC 7822|Bacteria-Cyanobacteria
218440329|Cyanothece sp. PCC 7424|Bacteria-Cyanobacteria
159027653|Microcystis aeruginosa PCC 7806|Bacteria-Cyanobacteria
159029171|Microcystis aeruginosa PCC 7806|Bacteria-Cyanobacteria
166365732|Microcystis aeruginosa NIES-843|Bacteria-Cyanobacteria
16329177|Synechocystis sp. PCC 6803|Bacteria-Cyanobacteria
218247354|Cyanothece sp. PCC 8801|Bacteria-Cyanobacteria
257061311|Cyanothece sp. PCC 8802|Bacteria-Cyanobacteria
126659675|Cyanothece sp. CCY0110|Bacteria-Cyanobacteria
67920449|Crocosphaera watsonii WH 8501|Bacteria-Cyanobacteria
172038146|Cyanothece sp. ATCC 51142|Bacteria-Cyanobacteria
229537664|Planctomyces limnophilus DSM 3776|Bacteria-Planctomycetes
116623720|Candidatus Solibacter usitatus Ellin6076|Bacteria-Acidobacteria
218296663|Thermus aquaticus Y51MC23|Bacteria-Deinococcus-Thermus
157273431|Candidatus Chloracidobacterium thermophilum|Bacteria-Acidobacteria
116794470|Picea sitchensis|Eukaryota-Viridiplantae
pp|fgenesh1 kg.scaffold 169000003||-
168042955|Physcomitrella patens subsp. patens|Eukaryota-Viridiplantae
pp|e gw1.177.42.1||-
168043971|Physcomitrella patens subsp. patens|Eukaryota-Viridiplantae
pp|estExt Genewise1.C 4440009||-
168066399|Physcomitrella patens subsp. patens|Eukaryota-Viridiplantae
pp|fgenesh2 pm.scaffold 105000001||-
168032359|Physcomitrella patens subsp. patens|Eukaryota-Viridiplantae
125595984|Oryza sativa Japonica Group|Eukaryota-Viridiplantae
115466272|Oryza sativa Japonica Group|Eukaryota-Viridiplantae
os|LOC Os06g04620.1||-
55296457|Oryza sativa Japonica Group|Eukaryota-Viridiplantae
226509148|Zea mays|Eukaryota-Viridiplantae
219888743|Zea mays|Eukaryota-Viridiplantae
7939611|Zea mays|Eukaryota-Viridiplantae
242091892|Sorghum bicolor|Eukaryota-Viridiplantae
242094594|Sorghum bicolor|Eukaryota-Viridiplantae
242089693|Sorghum bicolor|Eukaryota-Viridiplantae
255581432|Ricinus communis|Eukaryota-Viridiplantae
270228457|Vitis vinifera|Eukaryota-Viridiplantae
225431177|Vitis vinifera|Eukaryota-Viridiplantae
147803491|Vitis vinifera|Eukaryota-Viridiplantae
224471665|Nicotiana benthamiana|Eukaryota-Viridiplantae
217073260|Medicago truncatula|Eukaryota-Viridiplantae
224097148|Populus trichocarpa|Eukaryota-Viridiplantae
224133746|Populus trichocarpa|Eukaryota-Viridiplantae
21536808|Arabidopsis thaliana|Eukaryota-Viridiplantae
6562268|Arabidopsis thaliana|Eukaryota-Viridiplantae
at|GMD2-Mur1|AT3G51160.1||-
186510910|Arabidopsis thaliana|Eukaryota-Viridiplantae
28373938|Arabidopsis thaliana|Eukaryota-Viridiplantae
78499703|Thellungiella halophila|Eukaryota-Viridiplantae
at|GMD1|AT5G66280.1||-
15239334|Arabidopsis thaliana|Eukaryota-Viridiplantae
224578743|Capsella grandiflora|Eukaryota-Viridiplantae
224578715|Capsella rubella|Eukaryota-Viridiplantae
224578741|Capsella grandiflora|Eukaryota-Viridiplantae
224578759|Capsella grandiflora|Eukaryota-Viridiplantae
Land plants
Chlorophyta algae
Fungi
Metazoa
Other eukaryotes
Archaea
Cyanobacteria
Other bacteria
Viruses
Others

Fig. S9: GMD