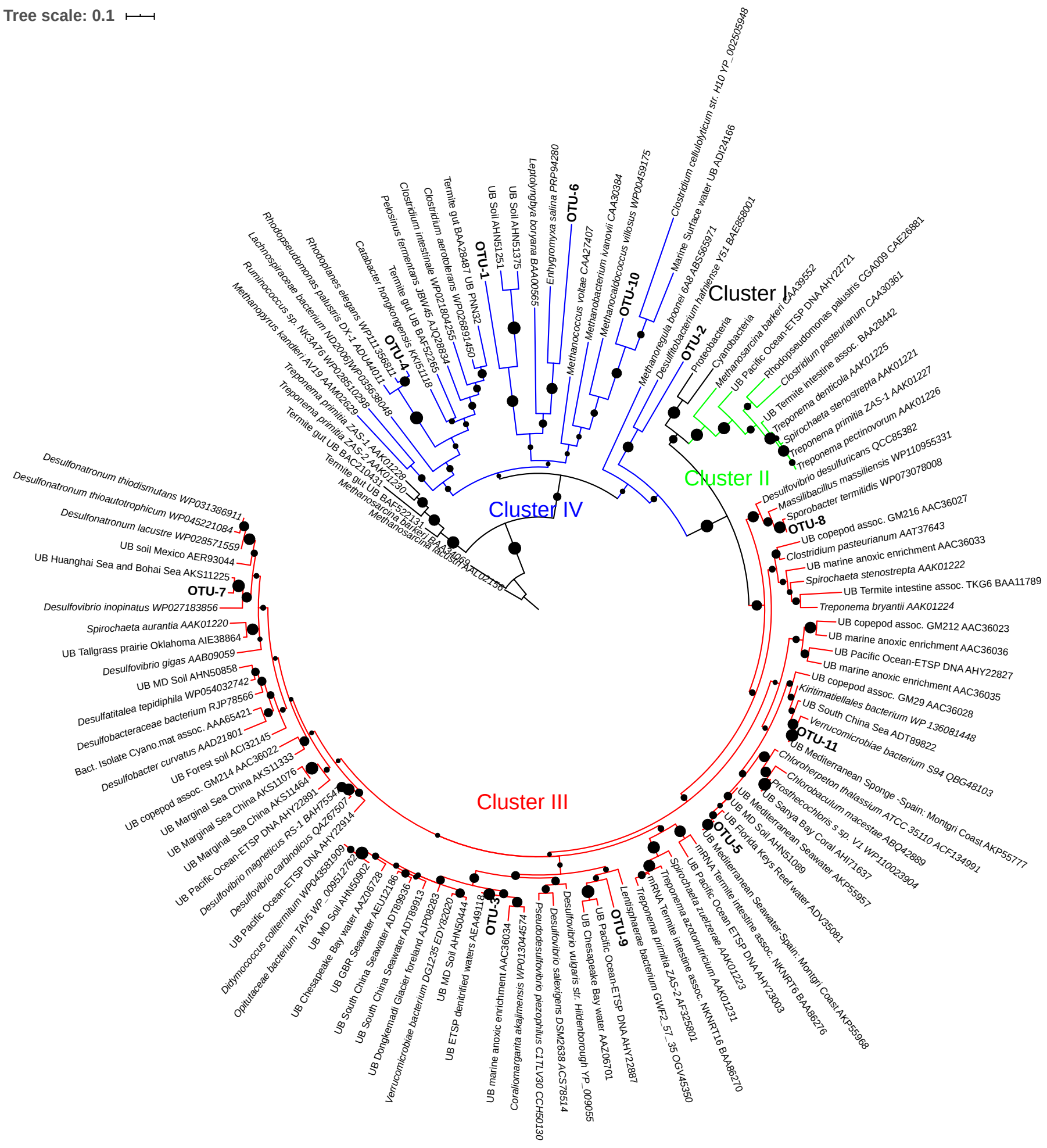
Tree scale: 0.1
Cluster I
Cluster II
Cluster III
Cluster IV
OTU-1
OTU-2
OTU-3
OTU-4
OTU-5
OTU-6
OTU-7
OTU-8
OTU-9
OTU-10
OTU-11
Clostridium cellulolyticum str. H10 YP_002505948
Marine Surface water UB ADI24166
Methanoregula boonei 6A8 ABS56971
Desulfitobacterium hafniense Y51 BAE858001
Proteobacteria
Cyanobacteria
Methanosarcina barkeri CAA39552
UB Pacific Ocean-ETSP DNA AHY22721
Rhodopseudomonas palustris CGA009 CAE26881
Clostridium pasteurianum CAA30361
UB Termite intestine assoc. BAA28442
Treponema denticola AAK01225
Spirochaeta stenostrepta AAK01221
Treponema primitia ZAS-1 AAK01227
Treponema pectinovorum AAK01226
Desulfovibrio desulfuricans QCC85382
Massilibacillus massiliensis WP110955331
Sporobacter termitidis WP073078008
UB copepod assoc. GM216 AAC36027
Clostridium pasteurianum AAT37643
UB marine anoxic enrichment AAC36033
Spirochaeta stenostrepta AAK01222
UB Termite intestine assoc. TKG6 BAA11789
Treponema bryantii AAK01224
UB copepod assoc. GM212 AAC36023
UB marine anoxic enrichment AAC36036
UB Pacific Ocean-ETSP DNA AHY22827
UB marine anoxic enrichment AAC36035
UB copepod assoc. GM29 AAC36028
Kiritimatiellales bacterium WP 136081448
UB South China Sea ADT89822
Verrucomicrobiae bacterium S94 QBG48103
UB Mediterranean Sponge -Spain: Montgri Coast AKP55777
Chloroherpeton thalassium ATCC 35110 ACF134991
Chlorobaculum macestae ABQ42889
Prosthecochloris s sp. V1 WP110023904
UB Sanya Bay Coral AHI71637
UB Mediterranean Seawater AKP55957
UB Florida Keys Reef water ADV35081
UB MD Soil AHN51089
UB Mediterranean Seawater-Spain: Montgri Coast AKP55968
UB Mediterranean Seawater-Spain: NKNRT6 BAA86276
UB Pacific Ocean ETSP DNA AHY23003
mRNA Termite intestine assoc. NKNRT16 BAA86270
Spirochaeta zuelzerae AAK01223
Treponema azotonutricium AAK01231
mRNA Termite intestine assoc. NKNRT6 BAA86276
Treponema primitia ZAS-2 AF325801
Treponema bacterium GWF2_57_35 OGV45350
Lentisphaerae bacterium GWF2_57_35 OGV45350
UB Pacific Ocean-ETSP DNA AHY22887
UB Chesapeake Bay water AAZ06701
Desulfovibrio vulgaris str. Hildenborough YP_009055
Desulfovibrio salexigens DSM2638 ACS78514
Pseudodesulfovibrio piezophilus C1TLV30 CCH50130
Coraliomargarita akajimensis WP013044574
UB marine anoxic enrichment AAC36034
UB ETSP denitrified waters AEA49118
UB MD Soil AHN50444
UB Dongkemadi Glacier forland AJP08283
Verrucomicrobiae bacterium DG1235 EDY82020
UB South China Seawater ADT89913
UB South China Seawater ADT89936
UB GBR Seawater AEU12186
UB Chesapeake Bay water AAZ06728
UB MD Soil AHN50902
Didymococcus colitermitum WP043581909
Opitutaceae bacterium TAV5 WP_009512762
UB Pacific Ocean-ETSP DNA AHY22914
Desulfovibrio carbinolicus QAZ67507
Desulfovibrio magneticus RS-1 BAH75541
UB Marginal Sea China AKS11464
UB Marginal Sea China AKS11076
UB Marginal Sea China AKS11333
UB copepod assoc. GM214 AAC36022
UB Forest soil ACI32145
Desulfobacter curvatus AAD21801
Bact. Isolate Cyano.mat assoc. AAA65421
Desulfobacteraceae bacterium RJP78566
Desulfatitalea tepidiphila WP054032742
UB MD Soil AHN50858
Desulfovibrio gigas AAB09059
UB Tallgrass prairie Oklahoma AIE38864
Spirochaeta aurantia AAK01220
Desulfovibrio inopinatus WP027183856
UB Huanghai Sea and Bohai Sea AKS11225
UB soil Mexico AER93044
Desulfonatronum lacustre WP028571559
Desulfonatronum thioautotrophicum WP045221084
Desulfonatronum thiodismutans WP031386911
Methanosarcina lacustris AAL02156
Methanosarcina barkeri BAA31069
Termite gut UB BAE522131
Termite gut UB BAC210431
Treponema primitia ZAS-2 AAK01230
Treponema primitia ZAS-1 AAK01228
Methanopyrus kandleri AV19 AAM02629
Ruminococcus sp. NK3A76 WP028510298
Lachnospiraceae bacterium ND2006 WP035638048
Rhodopseudomonas palustris DX-1 ADU44011
Rhodoplanes elegans WP011356811
Calabacter hongkongensis KKI51118
Pelosinus fermentans JBW45 AJQ28834
Termite gut UB BAF52265
Clostridium intestinale WP021804255
Clostridium aerotolerans WP026891450
Termite gut BAA28487 UB PNN32
UB Soil AHN51251
UB Soil AHN51375
Leptolyngbya boryana BAA00565
Enhygromyxa salina PRP94280
Methanococcus voltae CAA27407
Methanobacterium ivanovii CAA30384
Methanocaldococcus villosus WP00459175