Paulinella

Archaea Bacteria

Eukaryota

——— Bacteria-Firmicutes-Bacilli-Bacillales-Bacillaceae-Bacillus_sp._2B10_WP_125655278.1 Bacteria-NA-NA-NA-NA-bacterium_RmlP001_WP_129218452.1 — Bacteria-Gemmatimonadetes-Gemmatimonadetes-Gemmatimonadales-Gemmatimonadaceae-Gemmatimonas_phototrophica_WP_026848498.1 — Bacteria-Gemmatimonadetes-Gemmatimonadetes-Gemmatimonadales-Gemmatimonadaceae-Gemmatirosa_kalamazoonesis_WP_025413061.1 Bacteria-Cyanobacteria-NA-NA-NA-filamentous_cyanobacterium_CCP5_WP_106882934.1 Bacteria-Cyanobacteria-NA-Synechococcales-Leptolyngbyaceae-Leptolyngbya_sp._BC1307_WP_121969120.1 ——— Bacteria-Cyanobacteria-NA-Synechococcales-Acaryochloridaceae-Acaryochloris_sp._CCMEE_5410_WP_010481011.1 Bacteria-Proteobacteria-Zetaproteobacteria-Mariprofundales-Mariprofundaceae-Mariprofundus_aestuarium_WP_100277306.1 —— Bacteria-Proteobacteria-Betaproteobacteria-Nitrosomonadales-Methylophilaceae-Methylomonas_clara_WP_124552821.1 Eukaryota-Dictyosteliales-Dictyosteliales-Dictyosteliales-Dictyosteliaceae-Dictyostelium discoideum XP 636703.1 Eukaryota-Rhodophyta-Compsopogonophyceae-NA-NA-Madagascaria_erythrocladiodes_MMETSP1450_c13657_g1_i1.p1 Eukaryota-Chlorophyta-Mamiellophyceae-Mamiellales-Bathycoccaceae-Bathycoccus_prasinos_MMETSP1399_c628_g1_i1.p1 Eukaryota-Longamoebia-Longamoebia-Longamoebia-Acanthamoebidae-Acanthamoeba_castellanii_XP_004338888.1 Eukaryota-Cryptophyta-NA-Goniomondales-NA-Goniomonas_sp_MMETSP0114_c3319_g1_i1.p1 Eukaryota-Amoebozoa-NA-NA-Paramoebidae-Pessonella_sp_MMETSP0420_c4476_g1_i1.p1 - Eukaryota-Amoebozoa-NA-NA-Paramoebidae-Trichosphaerium_sp_MMETSP0405_c4100_g1_i1.p1 —————— Eukaryota-Annelida-Clitellata-Hirudinida-Glossiphoniidae-Helobdella_robusta_igi186861 ————— Eukaryota-Platyhelminthes-Cestoda-Cyclophyllidea-Taeniidae-Echinococcus_granulosus_XP_024350165.1 Eukaryota-Platyhelminthes-Trematoda-Opisthorchiida-Opisthorchiidae-Opisthorchis_viverrini_XP_009174355.1 Eukaryota-Platyhelminthes-Trematoda-Strigeidida-Schistosomatidae-Schistosoma haematobium XP 012801247.1 Eukaryota-Mollusca-Cephalopoda-Octopoda-Octopodidae-Octopus_vulgaris_XP_029650583.1 — Eukaryota-Brachiopoda-Lingulata-Lingulida-Lingulidae-Lingula_anatina_XP_013419467.1 Eukaryota-Nematoda-Chromadorea-Rhabditida-Onchocercidae-Brugia_malayi_XP_001894605.1 Eukaryota-Echinodermata-Echinoidea-Echinoida-Strongylocentrotidae-Strongylocentrotus_purpuratus_XP_780584.3 Eukaryota-Hemichordata-Enteropneusta-NA-Harrimaniidae-Saccoglossus_kowalevskii_XP_002732269.1 39 — Eukaryota-Choanoflagellata-Choanoflagellata-Choanoflagellata-NA-Acanthoeca_sp_MMETSP0105_c1510_g1_i1.p1 — Eukaryota-Mesomycetozoea-Ichthyosporea-NA-NA-Capsaspora owczarzaki XP 004365437.2 Eukaryota-Ascomycota-Lecanoromycetes-Unranked-Unranked-Xanthoria_parietina_jgi66968 - Eukaryota-Ascomycota-Schizosaccharomycetes-Schizosaccharomycetales-Schizosaccharomycetaceae-Schizosaccharomyces_japonicus_XP_002172463.1 Eukaryota-Basidiomycota-Tremellomycetes-Tremellales-Tremellaceae-Tremella_mesenterica_jgi45127 ___ Eukaryota-Mucorales-Mucoraceae-Undefined-Undefined-Mucor_circinelloides_igi26661 —— Eukaryota-Entamoebidae-NA-NA-NA-Entamoeba_invadens_XP_004184340.1 ukaryota-Heterolobosea-NA-NA-NA-Percolomonas cosmopolitus MMETSP0759 c9818 g1 i1.p1 Eukaryota-Alveolata-Dinophyceae-NA-Unranked-Symbiodinium_sp_MMETSP1369_c3361_g1_i1.p1 ora-NA-Unranked-NA-Strombidinopsis acuminatum MMETSP0126 c12874 g1 i1.p1 ota-Alveolata-Dinophyceae-NA-Unranked-Togula_jolla_MMETSP0224_c1976_g1_i1.p1 Eukaryota-Haptophyta-NA-Pavlovales-Pavlovaceae-Pavlova_sp_MMETSP1139_c17027_g1_i1.p1 Eukaryota-Haptophyta-NA-Prymnesiales-NA-Calcidiscus_leptoporus_MMETSP1334_c7977_g1_i1.p1 —— Eukaryota-Haptophyta-NA-Prymnesiales-NA-Pleurochrysis_carterae_MMETSP1138_c2066_g1_i1.p1 Eukaryota-Retaria-NA-NA-NA-Sorites_sp_MMETSP0191_c18340_g1_i1.p1 ——— Eukaryota-Stramenopiles-Oomycetes-Saprolegniales-Saprolegniaceae-Aphanomyces_astaci_XP_009821527.1 Eukaryota-Apicomplexa-Conoidasida-Eucoccidiorida-Sarcocystidae-Neospora caninum XP 003881684.1 —— Eukaryota-Apicomplexa-Conoidasida-Eugregarinorida-Gregarinidae-Gregarina_niphandrodes_XP_011131501.1 Eukaryota-Euglenida-NA-Eutreptiales-NA-Eutreptiella_gymnastica-like_MMETSP0809_c60078_g1_i1.p1 Eukaryota-Stramenopiles-Labyrinthista-NA-NA-Aplanochytrium_stocchinoi_MMETSP1348_c3201_g1_i1.p1 ——— Eukaryota-Kinetoplastida-Kinetoplastida-Kinetoplastida-Trypanosomatidae-Trypanosoma_cruzi_XP_815237.1 Eukaryota-Ciliophora-NA-Unranked-NA-Protocruzia_adherens_MMETSP0216_c3345_g1_i1.p1 MSTRG.19364.1.p1 Paulinella_chromatophora_CCAC0185_nuclear___scaffold4226-m40497 Paulinella_chromatophora_CCAC0185_nuclear___scaffold2184-m25620 Paulinella_ovalis_nuclear_SingleCell___SAG2_utg7180000000368.g165.t1 Paulinella_ovalis_nuclear_SingleCell___SAG2_utg7180000002509.g1205.t1 Eukaryota-Ciliophora-NA-Unranked-NA-Euplotes_focardii_MMETSP0206_TR15062-c0_g1_i1.p1 Eukaryota-Cercozoa-Chlorarachniophyceae-NA-NA-Bigelowiella_natans_CCMP2755_jgi92577 Eukaryota-Cercozoa-Chlorarachniophyceae-NA-NA-Chlorarachnion_reptans_MMETSP0109_c1607_g1_i1.p1 - Eukaryota-Cercozoa-Chlorarachniophyceae-NA-NA-Norrisiella sphaerica MMETSP0113 c15281 g1 i1.p1 —— Paulinella_chromatophora_CCAC0185_nuclear___scaffold1237-m17273 — Paulinella_ovalis_nuclear_SingleCell___SAG2_utg7180000012913.g6429.t1 — Archaea-Euryarchaeota-Halobacteria-Halobacteriales-Halobacteriaceae-Haladaptatus_litoreus_WP_076430948.1

— Archaea-Crenarchaeota-Thermoprotei-Thermoproteales-Thermoproteaceae-Caldivirga_sp._MU80_WP_066795596.1

Paulinella_ovalis_nuclear_SingleCell___SAG2_utg7180000004277.g2098.t1

Eukaryota-Mesomycetozoea-Ichthyosporea-Ichthyophonida-NA-Sphaeroforma arctica XP 014153899.1

Archaea-Crenarchaeota-Thermoprotei-Thermoproteales-Thermoproteaceae-Vulcanisaeta_thermophila_WP_143701209.1

———— Archaea-Euryarchaeota-Halobacteria-Natrialbales-Natrialbaceae-Natrarchaeobius_halalkaliphilus_WP_124177145.1 ——— Archaea-Euryarchaeota-Halobacteria-Natrialbales-Natrialbaceae-Natronorubrum_bangense_WP_136350828.1

- Archaea-NA-NA-NA-NA-archaeon AArcSI WP 119817814.1

Bacteria-Bacteroidetes-Flavobacteriia-Flavobacteriales-Flavobacteriaceae-Empedobacter_haloabium_WP_147953397.1

— Bacteria-Proteobacteria-Gammaproteobacteria-Methylococcales-Methylococcaceae-Methyloterricola_oryzae_WP_045223421.1