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KME49_12755_Brasilonema_octagenarum_HA4186-MV1 آ
     LKME46_04525_Brasilonema_angustatum_HA4187-MV1
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     KME57_28845_Scytonema_hyalinum_WJT4-NPBG1
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          -Cal6303_4665_Calothrix_sp._PCC_6303
      KME33_04185_Aetokthonos_hydrillicola_B3-Florida
       -Riv7116_4535_Rivularia_sp._PCC_7116_PCC_7116
      -KME60_31875_Cyanomargarita_calcarea_GSE-NOS-MK-12-04C
      -KME64_36920_Scytonematopsis_contorta_HA4267-MV1
     KME38_07560_Spirirestis_raphaelensis_WJT71-NPBG6
    <sup>I</sup>KME22_04780_Hassallia_sp._WJT32-NPBG1
     KME31_32950_Tolypothrix_carrinoi_HA7290-LM1
    LKME54_06440_Tolypothrix_brevis_GSE-NOS-MK-07-07A
   KME55_28735_Nostoc_indistinguendum_CM1-VF10
  KME50_15540_Nostoc_desertorum_CM1-VF14
  Lind Npun R6006 Nostoc punctiforme PCC 73102 ATCC 29133 PCC 73102
    -KME52_00170_Desmonostoc_geniculatum_HA4340-LM1
  LKME40_02785_Komarekiella_atlantica_HA4396-MV6
         -Glo7428_2812_Gloeocapsa_sp._PCC_7428_PCC_7428
       Chro_0501_Chroococcidiopsis_thermalis_PCC_7203
      -KME01_05740_Chroococcus_sp._CMT-3BRIN-NPC107
  -Ava_1513_Trichormus_variabilis_ATCC_29413
   -NPCC7120_144_Nostoc_sp._PCC_7120_=_FACHB-418_PCC_7120
   -Nos7524_5353_Nostoc_sp._PCC_7524_PCC_7524
   -Nos7107_2294_Nostoc_sp._PCC_7107_PCC_7107
  -KME59_02785_Trichormus_sp._ATA11-4-KO1
  -KME21_18200_Desmonostoc_vinosum_HA7617-LM4
    AA650_23095_Anabaena_sp._WA102_WA102
      -ANA_C10542_Anabaena_sp._90_90
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   -Anacy_3645_Anabaena_cylindrica_PCC_7122
  -Cal7507_0631_Calothrix_sp._PCC_7507_PCC_7507
 KME23_12295_Goleter_apudmare_HA4340-LM2
 -KME32_10760_Mojavia_pulchra_JT2-VF2
   -IJ00 00200 Calothrix sp. 336 3 336 3
 -KME28_09760_Pelatocladus_maniniholoensis_HA4357-MV3
Cri9333_1367_Crinalium_epipsammum_PCC_9333
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                SYNGTI_1543_Synechocystis_sp._PCC_6803_substr._GT-I
                SYNGTS_1543_Synechocystis_sp._PCC_6803_GT-S
                SYNPCCP_1542_Synechocystis_sp._PCC_6803_substr._PCC-P
                SynPCC6803_1540_Synechocystis_sp._PCC_6803_PCC_6803
                D082_34370_Synechocystis_sp._PCC_6714_PCC_6714
                Cyan10605_2541_Cyanobacterium_aponinum_PCC_10605
           ·MAE_60880_Microcystis_aeruginosa_NIES-843
            Cyan7822_1950_Gloeothece_verrucosa_PCC_7822
           PCC7424_3100_Gloeothece_citriformis_PCC_7424
             Sta7437_2296_Stanieria_cyanosphaera_PCC_7437
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          cce_4748_Crocosphaera_subtropica_ATCC_51142
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              Lepto7376_2457_Leptolyngbya_sp._PCC_7376_
            PCC7418_0745_Halothece_sp._PCC_7418_PCC_7418
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                         GvioPCC7421 1356 Gloeobacter violaceus PCC 742
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                          GKIL_0807_Gloeobacter_kilaueensis_JS1
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                   -CYB_0539_Synechococcus_sp._JA-2-3Ba2-13_JA-2-3Ba2-1
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          ·KME20_19345_Kaiparowitsia_implicata_GSE-PSE-MK54-09C
              -KME14_24600_Tildeniella_torsiva_UHER_1998_13D
       -KME15_11060_Drouetiella_hepatica_UHER_2000_2452
     ·KME11 08945 Timaviella obliquedivisa GSE-PSE-MK23-08B
     KME07_14995_Pegethrix_bostrychoides_GSE-TBD4-15B
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      KME27_23840_Lyngbya_sp._HA4199-MV5
    KME42_10245_Tildeniella_nuda_ZEHNDER_1965_U140
     -KME57_28295_Scytonema_hyalinum_WJT4-NPBG1
     -KME16_00715_Scytolyngbya_sp._HA4215-MV1
    rKME10_25095_Plectolyngbya_sp._WJT66-NPBG17
    <sup>I</sup>KME18_23465_Oscillatoria_tanganyikae_FI6-MK23
     KME43_19985_Myxacorys_chilensis_ATA2-1-KO14
    <sup>L</sup>KME13_13950_Myxacorys_californica_WJT36–NPBG1
        Syn6312_3253_Synechococcus_sp._PCC_6312_PCC_6312
           Telo_413_Thermosynechococcus_elongatus_BP-1
       -Cyan7425_2510_Cyanothece_sp._PCC_7425_PCC_7425
      KME35_12810_Aphanocapsa_sp._GSE-SYN-MK-11-07L
   ·Osc7112_5527_Oscillatoria_nigro-viridis_PCC_7112
KME26_30310_Oscillatoria_princeps_RMCB-10
 KME19_11270_Microcoleus_vaginatus_WJT46-NPBG5
 Oscil6304_3477_Oscillatoria_acuminata_PCC_6304
    Mic7113_5391_Microcoleus_sp._PCC_7113_PCC_7113
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