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DIMENSIONS NTAX=121 NCHAR=6582;

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Study reference:
Boehm, E.W.A., G.K. Mugambi, A.N. Miller, S.M. Huhndorf, J.W. Spatafora and C.L. Schoch. 2009. A molecular phylogenetic reappraisal of the Hysteriaceae, Mytiliniaceae and Gloniaceae (Pleosporomycetidae, Dothideomycetes) with keys to world species. Studies in Mycology 64:49-83

Study accession number = S2622
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'Scoriia_spongiosa_CBS_325_33'
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'Hysteroobrevium_mori_GKM_1013',
'Rytdihyosteron_opuntiae_GKM_119',
'Gloniopsis_subrugosa_GKM_1214',
'Gloniopsis_subrugosa_SMH_557',
'Elsinoe_veneta_CBS_150_27',
'Jahnua_aquatica_R68_1',
'Rytdihyosteron_rufulum_CBS_306_38',
'Rytdihyosteron_rufulum_EB_0382',
'Rytdihyosteron_rufulum_EB_0383',
'Rytdihyosteron_rufulum_EB_0384',
'Hysteroobrevium_mori_CBS_245_34',
'Mytilinidion_rhenanum_CBS_135_45',
'Ostreichnion_curtisii_CBS_198_34',
'Hysterooglyphium_fraxini_CBS_109_43',
'Glonium_stellatum_CBS_207_34',
'Hysteroobrevium_smlacis_CBS_200_34',
'Hysterium_hyalinum_CBS_237_34',
'Mytilinidion_australe_CBS_301_34',
'Gloniopsis_praelonga_CBS_123337',
'Hysteroobrevium_mori_CBS_123563',
'Hysteroobrevium_mori_CBS_123564',
'Oedohysterium_pulchrum_DAOM_234345',
'Hysterooglyphium_fraxini_CBS_242_34',
'Psillogonium_aracanum_CMW_1794I',
'Hysteroobrevium_smlacis_CMW_18053',
'Psillogonium_aracanum_CMW_18760',
'Gloniopsis_praelonga_CMW_19983',
'Hysterium_angustatum_CMW_20409',
'Hysteroobrevium_mori_CBS_123335',
'Hysteroobrevium_mori_CBS_123336',
'Psillogonium_clavisporum_CBS_123340',
'Psillogonium_clavisporum_CBS_123341',
'Glonium_circumserpens_CBS_123343',
'Cenococcum_geophilum_GMONI',
'Cenococcum_geophilum_10',
'Cenococcum_geophilum_HUNT_AI',
'Farlowiella_carmichaeliana_CBS_179_73',
'Lophium_elegans_EB_0366',
'Mytilinidion_mytilinellum_EB_0386',
'Mytilinidion_rhenanum_EB_0341',
'Mytilinidion_tortile_EB_0377',
'Mytilinidion_thujarum_EB_0268',
'Mytilinidion_acicola_EB_0379',
'Mytilinidion_acicola_EB_0349',
'Mytilinidion_californicum_EB_0385',
'Encephalographa_elisae_EB_0347',
'Oedohysterium_sinense_EB_0339',
'Rytdihyosteron_rufulum_EB_0384',
'Rytdihyosteron_hysterinum_EB_0351',
'Hysteroobrevium_smlacis_CBS_114601',
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'Hysteroobrevium_smlacis_GKM_426N',
'Hysteroobrevium_smlacis_SMH_5280',
'Psillogonium_clavisporum_GKM_344',
'Hysterium_angustatum_SMH_5211_0',
'Psillogonium_clavisporum_GKM_L172A',
'Hysteroobrevium_constrictum_SMH_5211_1',
'Glonium_stellatum_ANM_32',

'Hysterium angustatum_GKM_243A'
'Hysterium barrianum_ANM_1442'
'Oedohysterium insidens_ANM_1443'
'Hysterium vermiforme_GKM_1234'
'Hysterium angustatum_ANM_85'
'Hysterium angustatum_SMH_5216'
'Gloniopsis keynensis_GKM_1010'
'Hysterobrevium_mori_SMH_5286'
'Gloniopsis arciformis_GKM_IL166A'
'Hysterium barrianum_ANM_1495'
'Quasiconcha_reticulata_EB_OR'
'Anteaglonium latirostratum_IL100N_2'
'Anteaglonium abbreviatum_ANM_925_1'
'Anteaglonium globosum_ANM_925_2'
'Anteaglonium globosum_SMH_5283'
'Anteaglonium parvulum_ANM_5210'

'Roccella fuciformis_AFTOL_126'
'Arthonia caesia_AFTOL_775'
'Simonyella variegata_AFTOL_80'
'Opegrapha dolomitica_DUKE_0047528'
'Guignardia gaultheriae_CBS_447_70'
'Botryosphaeria dothidea_CBS_115476'
'Scorias spongiosa_CBS_325_33'
'Dothidea sambuci_DAOM_231303'
'Dothidea insculpta_CBS_189_58'
'Mycohaerella punctiformis_CBS_113265'
'Hysteropatella clavisporea_CBS_247_34'
'Hysteropatella elliptica_CBS_958_97'
'Myriangium duriaei_CBS_260_36'
'Phoma herbarum_CBS_276_37'
'Herpotrichia diffusa_CBS_250_62'
'Delitschia winteri_CBS_225_62'
'Lophium mytilinum_CBS_269_34'
'Byssothecium circinans_CBS_675_92'
'Leptosphaeria maculans_DAOM_229267'
'Cochliobolus heterostrophus_CBS_134_39'
'Pleospora herbarum_CBS_191_86'
'Psiloglonium clavisporum_CBS_123338'
'Ostrechnion sassafras_CBS_322_34'
'Mytilinidion resinicola_CBS_304_34'
'Psiloglonium simulans_CBS_206_34'
'Psiloglonium araucanum_CBS_IL12412'
'Patellaria atrata_CBS_958_97'
'Aliquandostipite_khaoyaiensis_CBS_118232'
'Arogenospora sphaerocephala_CBS_164_76'
'Farlowiella carmichaeliana_CBS_206_36'
'Gloniopsis praelonga_CBS_IL12415'
'Hysterium angustatum_CBS_236_34'
'Oedohysterium insidens_CBS_238_34'
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'Mytilinidion scolecosporum_CBS_305_34'
'Psiloglonium clavisporum_CBS_123339'
'Mytilinidion andinense_EB_0330'
'Glonium circumserpens_CBS_123342'
'Hysterium pulicare_CBS_123377'
'Lophium mytilinum_CBS_123344'
'Hysterium angustatum_CBS_123334'

'Oedohysterium sinense CBS_123345',
'Gloniopsis subrugosa CBS_123346',
'Ruytidhysterium rufulum GKM_361A',
'Psillogonium simulans ANM_1557',
'Anteaglonium latirostrum GKM_1119',
'Hysterobrevium mori SMH_5273',
'Hysterobrevium mori_GKM_1013',
'Ruytidhysterium opuntiae GKM_119',
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'Elsinoe veneta CBS_150_27',
'Jannula aquatica R68_1',
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'Hysterium hyalinum CBS_237_34',
'Mytilinidion australe CBS_301_34',
'Gloniopsis praelonga CBS_123337',
'Hysterobrevium mori CBS_123563',
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'Oedohysterium pulchrum DAOM_234345',
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'Hysterobrevium mori CBS_123335',
'Hysterobrevium mori CBS_123336',
'Psillogonium clavispurum CBS_123340',
'Psillogonium clavispurum CBS_123341',
'Glonium circumserpens CBS_123343',
'Cenococcum geophilum CGMONT',
'Cenococcum geophilum_10',
'Cenococcum geophilum_HUNT_A1',
'Farlowiella carmichaeliana CBS_179_73',
'Lophium elegans EB_0366',
'Mytilinidion mytilinellum EB_0386',
'Mytilinidion rhenanum EB_0341',
'Mytilinidion tortile EB_0377',
'Mytilinidion thujarum EB_0268',
'Mytilinidion acicola EB_0379',
'Mytilinidion acicola EB_0349',
'Mytilinidion californicum EB_0385',
'Encephalographa elisae EB_0347',
'Oedohysterium sinense EB_0339',
'Ruytidhysterium rufulum EB_0384',
'Ruytidhysterium hysterinum EB_0351',
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'Lophium mytilinum CBS_114111',
'Hysterobrevium smilacis GKM_426N',
'Hysterobrevium smilacis SMH_5280'

'Mytilinidion_andinense_EB_0330',
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'Rhytidhysterium_rufulum_GKM_361A',
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'Hystrerobrevium_mori_GKM_1013',
'Rhytidhysterium_opuntiae_GKM_119',
'Gloniopsis_subrugosa_GKM_1214',
'Gloniopsis_subrugosa_SMH_557',
'Elsinoe_veneta_CBS_150_27',
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'Rhytidhysterium_rufulum_EB_0382',
'Rhytidhysterium_rufulum_EB_0383',
'Rhytidhysterium_rufulum_EB_0384',
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'Ostreichnion_curtisii_CBS_198_34',
'Hystrerographium_fraxini_CBS_109_43',
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'Hystrerobrevium_mori_CBS_123564',
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'Hystrerographium_fraxini_CBS_242_34',
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'Hystrerobrevium_smlacis_CMW_18053',
'Psilloglonium_araucanum_CMW_18760',
'Gloniopsis_praelonga_CMW_19983',
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'Hystrerobrevium_mori_CBS_123336',
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'Mytilinidion_rhenanum_EB_0341',
'Mytilinidion_tortile_EB_0377',
'Mytilinidion_thujarum_EB_0268',
'Mytilinidion_acicola_EB_0379',
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'Mytilinidion_californicum_EB_0385',
'Eucephalographa_elisae_EB_0347',
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'Rhytidhysterium_rufulum_EB_0384',

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'Anteaglonium_latirostrum_GKM_1119',
'Hysterobrevium_mori_SMH_5273',
'Hysterobrevium_mori_GKM_1013',
'Rhytidhysterium_opuntiae_GKM_119',
'Gloniopsis_subrugosa_GKM_1214',
'Gloniopsis_subrugosa_SMH_557',
'Elsinoe_veneta_CBS_150_27',
'Jahnula_aquatica_R68_1',
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'Rythydysterium_rufulum_EB_0382',
'Rythydysterium_rufulum_EB_0383',
'Rythydysterium_rufulum_EB_0384',
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'Ostrechnion_curtisii_CBS_198_34',
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'Glonium_stellatum_CBS_207_34',
'Hysterobrevium_smilacis_CBS_200_34',
'Hysterium_hyalinum_CBS_237_34',
'Mytilinidion_australe_CBS_301_34',
'Gloniopsis_praelonga_CBS_123337',
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'Hysterobrevium_mori_CBS_123564',
'Oedohysterium_pulchrum_DAOM_234345',
'Hysteroglyphium_fraxini_CBS_242_34',
'Psiloglonium_aracanum_CMW_1794I',
'Hysterobrevium_smilacis_CMW_18053',
'Psiloglonium_aracanum_CMW_18760',
'Gloniopsis_praelonga_CMW_19983',
'Hysterium_angustatum_CMW_20409',
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'Hysterobrevium_mori_CBS_123336',
'Psiloglonium_clavisporum_CBS_123340',
'Psiloglonium_clavisporum_CBS_123341',
'Glonium_circumserpens_CBS_123343',
'Cenococcum_geophilum_GMONT',
'Cenococcum_geophilum_10',
'Cenococcum_geophilum_HUNT_A1',
'Farlowiella_carmichaeliana_CBS_179_73',
'Lophium_elegans_EB_0366',
'Mytilinidion_mytilinellum_EB_0386',
'Mytilinidion_rhenanum_EB_0341',
'Mytilinidion_tortile_EB_0377',
'Mytilinidion_thujarum_EB_0268',
'Mytilinidion_acicola_EB_0379',

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CCAGGAGTTACAGCATCGCGTAGCAATCAAAGCTAGCATATCACAAATGGACTGAAGTACTCTAGCCACAGGHAATGGCGCATCAGAAAAGGCC
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CCTGGAGTTCRAACTTCAAATAGTCTGAAAGCCAGTACTATCACCNAATGGTCTCAAATCTCTCGCTAGCAGGCAACTGGCGCACCAAAAGAGGCC
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CCAAGACTTCAATGTCAGATTGGCTGAAAGCCAGTCTCATACGAACGGTTTGAAGTACTTTCAGCTACTGGAATTTGGGGTACCCAGAAAGAGCC
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ATGCARAACBAGGCGGTTAFTCAAGTCTGAACTGTAFAATTAFAATTTGCTCCATTTGGCTTCCATTTGTCACATTTGGCCCGACTAATACCAATTTGGCCGGGAGC
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'Mytilinidion_mytilinelium_EB_0386'
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'Mytilinidion_thujarum_EB_0268'
'Mytilinidion_acicola_EB_0379'
'Mytilinidion_acicola_EB_0349'
'Mytilinidion_californicum_EB_0385'
'Encephalographa_elisae_EB_0347'
'Oedohysterium_sinense_EB_0339'
'Rhytidhysterium_rufulum_EB_0384'
'Rhytidhysterium_smilacis_CBS_114601'
'Lophium_mytilinum_CBS_114111'
'Hysterobrevium_smilacis_GKM_426N'
'Hysterobrevium_smilacis_SMH_5280'
'Psillogonium clavisporem_GKM_344'
'Hysterium_angustatum_SMH_5211_0'
'Psillogonium clavisporem_GKM_L172A'
'Hysterobrevium_constrictum_SMH_5211_1'
'Glonium stellatum_ANM_32'
'Hysterium_angustatum_GKM_243A'
'Hysterium_barrianum_ANM_1442'
'Oedohysterium_insidens_ANM_1443'
'Hysterium_vermiforme_GKM_1234'
'Hysterium_angustatum_ANM_85'
'Hysterium_angustatum_SMH_5216'
'Glonopsis_keynensis_GKM_1010'
'Hysterobrevium_mori_SMH_5286'
'Glonopsis_arciformis_GKM_L166A'
'Hysterium_barrianum_ANM_1495'
'Quasiconcha_reticulata_EB_OR'
'Anteaglonium_latirostrum_L100N_2'
'Anteaglonium_abbreviatum_ANM_925_1'
'Anteaglonium_globosum_ANM_925_2'
'Anteaglonium_globosum_SMH_5283'
'Anteaglonium_parvulum_SMH_5210'

'Roccella_fuciformis_AFTOL_126'
'Arthonia_caesia_AFTOL_775'
'Simonyella_variegata_AFTOL_80'
'Opegrapha_dolomitica_DUKE_0047528'
'Guignardia_gaultheriae_CBS_447_70'
'Botryosphaeria_dothidea_CBS_115476'
'Scorias_spongiosa_CBS_325_33'
'Dothidea_sambuci_DAOM_231303'
'Dothidea_insculpta_CBS_189_58'
'Mycosphaerella_punctiformis_CBS_113265'
'Hysteropatella_clavispora_CBS_247_34'
'Hysteropatella_elliptica_CBS_958_97'
'Myriangium_duriaei_CBS_260_36'
'Phoma_herbarum_CBS_276_37'
'Herpotrichia_diffusa_CBS_250_62'
'Delitschia_winteri_CBS_225_62'
'Lophium_mytilinum_CBS_269_34'
'Bysotheclium_circinans_CBS_675_92'
'Leptosphaeria_maculans_DAOM_229267'
'Cochliobolus_heterostrophus_CBS_134_39'
'Pleiospora_herbarum_CBS_191_86'

'Cenococcum_geophilum_CGMONT'
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 'Mytilinidion_tortile_BB_0377'
 'Mytilinidion_thujarum_BB_0268'
 'Mytilinidion_acicola_BB_0379'
 'Mytilinidion_californicum_BB_0385'
 'Encephalographa_elisae_BB_0347'
 'Oedohysterium_sinense_BB_0339'
 'Rhytidhysterion_rufulum_BB_0384'
 'Rhytidhysterion_hystrerium_BB_0351'
 'Hysterobrevium_smlacis_CBS_114601'
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 'Hysterobrevium_smlacis_GKM_426N'
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 'Psilogonium_clavisporum_GKM_344'
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 'Hysterobrevium_constrictum_SMH_5211_1'
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 'Oedohysterium_insidents_ANM_1443'
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 'Hysterium_angustatum_ANM_85'
 'Hysterium_angustatum_SMH_5216'
 'Gloniopsis_keynensis_GKM_1010'
 'Hysterobrevium_mori_SMH_5286'
 'Gloniopsis_arciiformis_GKM_1166A'
 'Hysterium_barrianum_ANM_1495'
 'Quasiconcha_reticulata_EB_OR'
 'Anteaglonium_latirostrum_L100N_2'
 'Anteaglonium_abbreviatum_ANM_925_1'
 'Anteaglonium_globosum_ANM_925_2'
 'Anteaglonium_globosum_SMH_5283'
 'Anteaglonium_parvulum_SMH_5210'

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 'Arthonia_caesia_AFTOL_775'
 'Simonyella_variegata_AFTOL_80'
 'Opegrapha_dolomitica_DUKE_0047528'
 'Guignardia_gaultheriae_CBS_447_70'
 'Botryosphaeria_dothidea_CBS_115476'
 'Scoria_spongiosa_CBS_325_33'
 'Dothidea_sambuci_DAOM_231303'
 'Dothidea_insculpta_CBS_189_58'
 'Mycosphaerella_punctiformis_CBS_113265'
 'Hysteropatella_clavispora_CBS_247_34'
 'Hysteropatella_elliptica_CBS_958_97'
 'Myriangium_duriaei_CBS_260_36'
 'Phoma_herbarum_CBS_276_37'
 'Herpotrichia_diffusa_CBS_250_62'
 'Delitschia_winteri_CBS_225_62'

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 GTAACTTCGAAACCCACCGCATCGCATCAACACCGCTTCGGCTTGTTCGTCCCGGCAAGAACCCGCTGAAGGCCAGCTTGTGGATTCGATCAAGAACTCT
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 GCAAGATTGCAAAGCCGCAGAACTGCATAACACACATTTGGGTTGGTTCGTCGCGCGGCAAAACACAGAGAGGTTCAGGCTTCGGTTCGGAAGAACCT
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GATCCGTCACAAAATCCGGAACGCCAACAAAAGGTTCTTCGTGAACGGGGTGTGGTGCGGGTG---CACAAACAGCCGACCGACGTTAATTCAGACATGTTCCGGCGG
 GAGCCGTAARACAAACCCGGATGCAGCAAAAAGGTTTTGTTCARACGGTGTCTGGGTCGGTGT---CACAGAGATCCCTGCTCAACTGACAAAGTGTGTCAAA
 GAGCCAAAGAACAAACCCGGATGCAGCAAAAAGGTTTTGTTCARACGGTGTCTGGTTCGGTGT---CACAGAGATCCCTGCTCAACTGACAAAGTGTGTCAAA
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 GACCCTGTCACTCGCGGAACGCCAACAAAAGGTTCTTCGTGAACGGGGTGTGGTGCGGGTG---CATCGTGAGCCTGCCAACGCTAGTCAACGATGTTATGA
 ?ACCCGG?CACTCGCGGAACCGCTACAAAAGT?????CTGTGAGTGTCTGGGTTGTTGTTG---CATCTGAGCCTG?CAA?CTTGTCACCAAGATGTTATGA
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 GATCCGATCTCAACCTACCGCAAGAAAGTTTTGTGAACGGGTTGGTGGGAT---CACTCACAGCCTGCCAGGTAITTCAGAGTTCGTTCAAG
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'Scorias_spongiosa_CBS_325_33'
 'Dothidea_sambuculi_DAO_M_231303'
 'Dothidea_insculpta_CBS_189_58'
 'Mycochaerella_punctiformis_CBS_113265'
 'Hysteropatella clavispora_CBS_247_34'
 'Hysteropatella_elliptica_CBS_958_97'
 'Myriangium_duriae_CBS_260_36'
 'Phoma_herbarum_CBS_276_37'
 'Herpotrichia_diffusa_CBS_250_62'
 'Delitschia_winteri_CBS_225_62'
 'Lophium_mytilinum_CBS_269_34'
 'Bysothecium_circinans_CBS_675_92'
 'Leptosphaeria_maculans_DAO_M_229267'
 'Coehliobolus_heterostrophus_CBS_134_39'
 'Pleospora_herbarum_CBS_191_86'
 'Psillogonium_clavisporum_CBS_123338'
 'Ostreichnion_sassafras_CBS_322_34'
 'Mytilinidion_resinicola_CBS_304_34'
 'Psillogonium_simulans_CBS_206_34'
 'Psillogonium_araucanum_CBS_112412'
 'Patellaria_atrata_CBS_958_97'
 'Aliquandostipite_khaoyaiensis_CBS_118232'
 'Acrogenospora_sphaerocephala_CBS_164_76'
 'Farlowiella_carmichaeliana_CBS_206_36'
 'Gloniopsis_praelonga_CBS_112415'
 'Hysterium_angustatum_CBS_236_34'
 'Oedohysterium_insidens_CBS_238_34'
 'Mytilinidion_mytilinellum_CBS_303_34'
 'Mytilinidion_scolecosporum_CBS_305_34'
 'Psillogonium_clavisporum_CBS_123339'
 'Mytilinidion_andinense_EB_0330'
 'Glonium_circumserpens_CBS_123342'
 'Hysterium_pulicare_CBS_123377'
 'Lophium_mytilinum_CBS_123344'
 'Hysterium_angustatum_CBS_123334'
 'Oedohysterium_sinense_CBS_123345'
 'Gloniopsis_subrugosa_CBS_123346'
 'Rhytidhysterium_rufulum_GKM_361A'
 'Psillogonium_simulans_ANM_1557'
 'Hysteroobrevium_mori_SMH_5273'
 'Rhytidhysterium_mori_GKM_1013'
 'Rhytidhysterium_opuntiae_GKM_119'
 'Gloniopsis_subrugosa_GKM_1214'
 'Gloniopsis_subrugosa_SMH_557'
 'Elsinoo_veneta_CBS_150_27'
 'Jahnula_aquatica_R68_1'
 'Rhytidhysterium_rufulum_CBS_306_38'
 'Rhytidhysterium_rufulum_EB_0382'
 'Rhytidhysterium_rufulum_EB_0383'
 'Rhytidhysterium_rufulum_EB_0384'
 'Hysteroobrevium_mori_CBS_245_34'
 'Mytilinidion_rhenanum_CBS_135_45'
 'Ostreichnion_curtisii_CBS_198_34'
 'Hysteroogonium_fraxini_CBS_109_43'
 'Glonium_stellatum_CBS_207_34'
 'Hysteroobrevium_snilacis_CBS_200_34'
 'Hysterium_hyalinum_CBS_237_34'
 'Mytilinidion_australe_CBS_301_34'

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 'Ptilogonium_clavisporum_CBS_123341',
 'Glonium_circumserpens_CBS_123343',
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 'Cenococcum_geophilum_10',
 'Cenococcum_geophilum_HUNT_A1',
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 'Lophium_elegans_EB_0366',
 'Mytilinidion_mytilinellum_EB_0386',
 'Mytilinidion_rhenanum_EB_0341',
 'Mytilinidion_tortile_EB_0377',
 'Mytilinidion_thujarum_EB_0268',
 'Mytilinidion_aticola_EB_0379',
 'Mytilinidion_aticola_EB_0349',
 'Mytilinidion_californicum_EB_0385',
 'Encephalographa_elisae_EB_0347',
 'Oedohysterium_sinense_EB_0339',
 'Rhytidhysterium_rufulum_EB_0384',
 'Rhytidhysterium_hysterinum_EB_0351',
 'Hysterobrevium_smilacis_CBS_114601',
 'Lophium_mytilinum_CBS_114111',
 'Hysterobrevium_smilacis_GKM_426N',
 'Hysterobrevium_smilacis_SMH_5280',
 'Ptilogonium_clavisporum_GKM_344',
 'Hysterium_angustatum_SMH_5211_0',
 'Ptilogonium_clavisporum_GKM_L172A',
 'Hysterobrevium_constrictum_SMH_5211_1',
 'Hysterium_angustatum_GKM_243A',
 'Hysterium_barrianum_ANM_1442',
 'Oedohysterium_insidens_ANM_1443',
 'Hysterium_vermiforme_GKM_1234',
 'Hysterium_angustatum_ANM_85',
 'Hysterium_angustatum_SMH_5216',
 'Gloniopsis_keynensis_GKM_1010',
 'Hysterobrevium_mori_SMH_5286',
 'Gloniopsis_arciiformis_GKM_L166A',
 'Hysterium_barrianum_ANM_1495',
 'Quasiconcha_reticulata_EB_OR',
 'Anteaglionium_latirostrum_L100N_2',
 'Anteaglionium_abbreviatum_ANM_925_1',
 'Anteaglionium_globosum_ANM_925_2',
 'Anteaglionium_globosum_SMH_5283',
 'Anteaglionium_parvulum_SMH_5210',

'Roccellia_fuciformis_AFTOL_126',
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'Hysterium_hyalinum_CBS_237_34'
'Mytilinidion_australe_CBS_301_34'
'Gloniopsis_praelonga_CBS_123337'
'Hysteroobrevium_mori_CBS_123563'
'Hysteroobrevium_mori_CBS_123564'
'Oedohysterium_pulchrum_DAOM_234345'
'Hysteroglyphium_fraxini_CBS_242_34'
'Psillogonium_aracanum_CMW_1794I'
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'Psillogonium_aracanum_CMW_18760'
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'Hysterium_angustatum_CMW_20409'
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'Hysteroobrevium_mori_CBS_123336'
'Psillogonium_clavisporum_CBS_123340'
'Psillogonium_clavisporum_CBS_123341'
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'Cenococcum_geophilum_CGMONT'
'Cenococcum_geophilum_10'
'Cenococcum_geophilum_HUNT_A1'
'Farlowiella_carmichaeliana_CBS_179_73'
'Lophium_elegans_EB_0366'
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'Mytilinidion_rhenanum_EB_0341'
'Mytilinidion_tortile_EB_0377'
'Mytilinidion_thujarum_EB_0268'
'Mytilinidion_aticola_EB_0379'
'Mytilinidion_aticola_EB_0349'
'Mytilinidion_californicum_EB_0385'
'Encephalographa_elisae_EB_0347'
'Oedohysterium_sinense_EB_0339'
'Rhytidhysterium_rufulum_EB_0384'
'Rhytidhysterium_hysterium_EB_0351'
'Hysteroobrevium_smilacis_CBS_114601'
'Lophium_mytilinum_CBS_114111'
'Hysteroobrevium_smilacis_GKM_426N'
'Hysteroobrevium_smilacis_GKM_5280'
'Psillogonium_clavisporum_GKM_344'
'Hysterium_angustatum_SMH_5211_0'
'Psillogonium_clavisporum_GKM_L172A'
'Hysteroobrevium_constrictum_SMH_5211_1'
'Glonium_stellatum_ANM_32'
'Hysterium_angustatum_GKM_243A'
'Hysterium_barrianum_ANM_1442'
'Oedohysterium_insidens_ANM_1443'
'Hysterium_vermiforme_GKM_1234'
'Hysterium_angustatum_ANM_85'
'Hysterium_angustatum_SMH_5216'
'Gloniopsis_keynensis_GKM_1010'
'Hysteroobrevium_mori_SMH_5286'
'Gloniopsis_arciiformis_GKM_L166A'
'Hysterium_barrianum_ANM_1495'
'Quasiconcha_reticulata_EB_OR'
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'Anteaglonium_abbreviatum_ANM_925_1'
'Anteaglonium_globosum_ANM_925_2'

'Anteaglonium_latirostrum_GKM_1119',
'Hysterobrevium_mori_SMH_5273',
'Hysterobrevium_mori_GKM_1013',
'Rhytidhysterion_opuntiae_GKM_119',
'Gloniopsis_subrugosa_GKM_1214',
'Gloniopsis_subrugosa_SMH_557',
'Elsinoe_veneta_CBS_150_27',
'Jannula_aquatica_R68_1',
'Rytdihysterion_rufulum_CBS_306_38',
'Rytdihysterion_rufulum_EB_0382',
'Rytdihysterion_rufulum_EB_0383',
'Rytdihysterion_rufulum_EB_0384',
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'Mytilinidion_rhenanum_CBS_135_45',
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'Hysterobrevium_mori_CBS_123564',
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'Hyteroglyphium_fraxini_CBS_242_34',
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'Psiloglonium_clavisporum_CBS_123341',
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'Cenococcum_geophilum_HUNT_A1',
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'Lophium_elegans_EB_0366',
'Mytilinidion_mytilinellum_EB_0386',
'Mytilinidion_rhenanum_EB_0341',
'Mytilinidion_tortile_EB_0377',
'Mytilinidion_thujarum_EB_0268',
'Mytilinidion_acicola_EB_0379',
'Mytilinidion_acicola_EB_0349',
'Mytilinidion_californicum_EB_0385',
'Encephalographa_elisae_EB_0347',
'Oedohysterium_sirense_EB_0339',
'Rytdihysterion_rufulum_EB_0384',
'Rytdihysterion_hystrinum_EB_0351',
'Hysterobrevium_smilacis_CBS_114601',
'Lophium_mytilinum_CBS_114111',
'Hyterobrevium_smilacis_GKM_426N',
'Hyterobrevium_smilacis_SMH_5280',
'Psiloglonium_clavisporum_GKM_344',
'Hysterium_angustatum_SMH_5211_0',
'Psiloglonium_clavisporum_GKM_1172A',
'Hyterobrevium_constrictum_SMH_5211_1',

'Gloniopsis_praelonga_CBS_112415',
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'Mytiliniidion_scolecosporum_CBS_305_34',
'Psillogonium_clavisporum_CBS_123339',
'Mytiliniidion_andinense_EB_0330',
'Glonium_circumserpens_CBS_123342',
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'Hysterium_angustatum_CBS_123334',
'Oedohysterium_sinense_CBS_123345',
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'Psillogonium_simulans_ANM_1557',
'Anteaglonium_latirostrum_GKM_1119',
'Hysterobrevium_mori_SMH_5273',
'Hysterobrevium_mori_GKM_1013',
'Rhytidhysterium_opuntiae_GKM_119',
'Gloniopsis_subrugosa_GKM_1214',
'Gloniopsis_subrugosa_SMH_557',
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'Jahnula_aquatica_R68_1',
'Rhytidhysterium_rufulum_CBS_306_38',
'Rhytidhysterium_rufulum_EB_0382',
'Rhytidhysterium_rufulum_EB_0383',
'Rhytidhysterium_rufulum_EB_0384',
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'Mytiliniidion_rhenanum_CBS_135_45',
'Ostreichnion_curtisii_CBS_198_34',
'Hysteroglyphium_fraxini_CBS_109_43',
'Glonium_stellatum_CBS_207_34',
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'Hysterium_hyalinum_CBS_237_34',
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'Hysterobrevium_mori_CBS_123564',
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'Psillogonium_clavisporum_CBS_123341',
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'Cenococcum_geophilum_HUNT_A1',
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'Mytiliniidion_rhenanum_EB_0341',
'Mytiliniidion_tortile_EB_0377',
'Mytiliniidion_thujarum_EB_0268',

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'Patellaria_atrata_CBS_958_97',
'Aliquandostipite_khaoyaiensis_CBS_118232',
'Acrogenospora_sphaerocephala_CBS_164_76',
'Farlowiella_carmichaeliana_CBS_206_36',
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'Mytilinidion_andanense_EB_0330',
'Glonium_circumserpens_CBS_123342',
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'Hysterobrevium_mori_GKM_1013',
'Rhytidhysterium_opuntiae_GKM_119',
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'Gloniopsis_subrugosa_SMH_557',
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'Jahnua_vaneta_R68_1',
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'Rhytidhysterium_rufulum_EB_0383',
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'Hysterobrevium_mori_CBS_123335',
'Hysterobrevium_mori_CBS_123336',
'Psiloglonium_clavisporum_CBS_123340',
'Psiloglonium_clavisporum_CBS_123341',
'Glonium_circumserpens_CBS_123343',
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'Cenococcum_geophilum_10',
'Cenococcum_geophilum_HUNT_A1',
'Farlowiella_carmichaeliana_CBS_179_73',

'Delitschia_winteri_CBS_225_62',
'Lophium_mytilinum_CBS_269_34',
'Bysothecium_circinans_CBS_675_92',
'Leptoshearia_maculans_DAOM_229267',
'Cochliobolus_heterostrophus_CBS_134_39',
'Pleospora_herbarum_CBS_191_86',
'Paiglogonium_clavisporum_CBS_123338',
'Ostreichnion_sassafras_CBS_322_34',
'Mytilinidion_resinicola_CBS_304_34',
'Paiglogonium_simulans_CBS_206_34',
'Paiglogonium_araucanum_CBS_112412',
'Patellaria_atrata_CBS_958_97',
'Aliquandostipite_khaoyaiensis_CBS_118232',
'Acrogenospora_sphaerocephala_CBS_164_76',
'Farlowiella_carmichaeliana_CBS_206_36',
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'Hysterium_angustatum_CBS_236_34',
'Oedohysterium_insidens_CBS_238_34',
'Mytilinidion_mytilinellum_CBS_303_34',
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'Paiglogonium_clavisporum_CBS_123339',
'Mytilinidion_andinense_EB_0330',
'Glonium_circumserpens_CBS_123342',
'Hysterium_pulicare_CBS_123377',
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'Hysterium_angustatum_CBS_123334',
'Oedohysterium_sinense_CBS_123345',
'Gloniopsis_subrugosa_CBS_123346',
'Rhytidhysterium_rufulum_GKM_361A',
'Paiglogonium_simulans_ANM_1557',
'Ateaglonium_latirostrum_GKM_1119',
'Hysterobrevium_mori_SMH_5273',
'Hysterobrevium_mori_GKM_1013',
'Rhytidhysterium_opuntiae_GKM_119',
'Gloniopsis_subrugosa_GKM_1214',
'Gloniopsis_subrugosa_SMH_557',
'Elsinoe_veneta_CBS_150_27',
'Jahnula_aquatica_R68_1',
'Rhytidhysterium_rufulum_CBS_306_38',
'Rhytidhysterium_rufulum_EB_0382',
'Rhytidhysterium_rufulum_EB_0383',
'Rhytidhysterium_rufulum_EB_0384',
'Hysterobrevium_mori_CBS_245_34',
'Mytilinidion_rhenanum_CBS_135_45',
'Ostreichnion_curtisii_CBS_198_34',
'Hystero-graphium_fraxini_CBS_109_43',
'Glonium_stellatum_CBS_207_34',
'Hysterobrevium_smilacis_CBS_200_34',
'Hysterium_hyalinum_CBS_237_34',
'Mytilinidion_australe_CBS_301_34',
'Gloniopsis_praelonga_CBS_123337',
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'Hysterobrevium_mori_CBS_123564',
'Oedohysterium_pulchrum_DAOM_234345',
'Hystero-graphium_fraxini_CBS_242_34',
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'Hysterobrevium_smilacis_CMW_18053',
'Paiglogonium_araucanum_CMW_18760',
'Gloniopsis_praelonga_CMW_19983',

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'Gloniopsis praelonga CBS_123337'
'Hysterobrevium mori CBS_123563'
'Hysterobrevium mori CBS_123564'
'Oedohysterium pulchrum DAOM_234345'
'Hysteroglyphium fraxini CBS_242_34'
'Pailoglonium araucanum CMW_17941'
'Hysterobrevium smilacis CMW_18053'
'Pailoglonium araucanum CMW_18760'
'Gloniopsis praelonga CMW_19983'
'Hysterium angustatum CMW_20409'
'Hysterobrevium mori CBS_123335'
'Hysterobrevium mori CBS_123336'
'Pailoglonium clavisporum CBS_123340'
'Pailoglonium clavisporum CBS_123341'
'Glonium circumserpens CBS_123343'
'Cenococcum geophilum CGMONT'
'Cenococcum geophilum HUNT_A1'
'Farlowiella carmichaeliana CBS_179_73'
'Lophium elegans EB_0366'
'Mytilinidion mytilinellum EB_0386'
'Mytilinidion rhenanum EB_0341'
'Mytilinidion tortile EB_0377'
'Mytilinidion thujarum EB_0268'
'Mytilinidion acicola EB_0379'
'Mytilinidion acicola EB_0349'
'Mytilinidion californicum EB_0385'
'Encephalographa elisae EB_0347'
'Oedohysterium sinense EB_0339'
'Rhytidhysterium rufulum EB_0384'
'Rhytidhysterium husterinum EB_0351'
'Hysterobrevium smilacis CBS_114601'
'Lophium mytilinum CBS_114111'
'Hysterobrevium smilacis GKM_426N'
'Hysterobrevium smilacis SMH_5280'
'Pailoglonium clavisporum GKM_344'
'Hysterium angustatum SMH_5211_0'
'Pailoglonium clavisporum GKM_L172A'
'Hysterobrevium constrictum SMH_5211_1'
'Glonium stellatum ANM_32'
'Hysterium angustatum GKM_243A'
'Hysterium barrianum ANM_1442'
'Oedohysterium insidens ANM_1443'
'Hysterium vermiforme GKM_1234'
'Hysterium angustatum ANM_85'
'Hysterium angustatum SMH_5216'
'Gloniopsis keynensis GKM_1010'
'Hysterobrevium mori SMH_5286'
'Gloniopsis arciformis GKM_L166A'
'Hysterium barrianum ANM_1495'
'Quasiconcha reticulata EB_OR'
'Anteaglonium latirostrum L100N_2'
'Anteaglonium abbreviatum ANM_925_1'
'Anteaglonium globosum ANM_925_2'
'Anteaglonium globosum SMH_5283'
'Anteaglonium parvulum SMH_5210'

'Ostreichnion_curtisii_CBS_198_34'
'Hysteroglyphium_fraxini_CBS_109_43'
'Glonium_stellatum_CBS_207_34'
'Hysterobrevium_smilacis_CBS_200_34'
'Hysterium_hyalinum_CBS_237_34'
'Mytilinidion_australe_CBS_301_34'
'Gloniopsis_praelonga_CBS_123337'
'Hysterobrevium_mori_CBS_123563'
'Hysterobrevium_mori_CBS_123564'
'Oedohysterium_pulchrum_DAOM_234345'
'Hysteroglyphium_fraxini_CBS_242_34'
'Psillogonium_araucanum_CMW_17941'
'Hysterobrevium_smilacis_CMW_18053'
'Psillogonium_araucanum_CMW_18760'
'Gloniopsis_praelonga_CMW_19983'
'Hysterium_angustatum_CMW_20409'
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'Hysterobrevium_mori_CBS_123336'
'Psillogonium_clavisporum_CBS_123340'
'Psillogonium_clavisporum_CBS_123341'
'Glonium_circumserpens_CBS_123343'
'Cenococcum_geophilum_GGMONT'
'Cenococcum_geophilum_10'
'Cenococcum_geophilum_HUNT_A1'
'Farlowiella_carmichaeliana_CBS_179_73'
'Lophium_elegans_EB_0366'
'Mytilinidion_mytilinellum_EB_0386'
'Mytilinidion_rhenanum_EB_0341'
'Mytilinidion_tortile_EB_0377'
'Mytilinidion_thujarum_EB_0268'
'Mytilinidion_acicola_EB_0379'
'Mytilinidion_acicola_EB_0349'
'Mytilinidion_californicum_EB_0385'
'Encephalographa_elisae_EB_0347'
'Oedohysterium_sinense_EB_0339'
'Rhytidhysterium_rufulum_EB_0384'
'Rhytidhysterium_hysterinum_EB_0351'
'Hysterobrevium_smilacis_CBS_114601'
'Lophium_mytilinum_CBS_114111'
'Hysterobrevium_smilacis_GKM_426N'
'Hysterobrevium_smilacis_SMH_5280'
'Psillogonium_clavisporum_GKM_344'
'Hysterium_angustatum_SMH_5211_0'
'Psillogonium_clavisporum_GKM_1172A'
'Hysterobrevium_constrictum_SMH_5211_1'
'Glonium_stellatum_ANM_32'
'Hysterium_angustatum_GKM_243A'
'Hysterium_barrianum_ANM_1442'
'Hysterium_vermiforme_GKM_1234'
'Hysterium_angustatum_ANM_85'
'Hysterium_angustatum_SMH_5216'
'Gloniopsis_keynensis_GKM_1010'
'Hysterobrevium_mori_SMH_5286'
'Gloniopsis_arciiformis_GKM_LI166A'
'Hysterium_barrianum_ANM_1495'
'Quasiconcha_reticulata_EB_OR'
'Anteaglonium_latirostrum_LI00N_2'
'Anteaglonium_abbreviatum_ANM_925_1'

'Rhytidhysterium_rufulum_EB_0382',
'Rhytidhysterium_rufulum_EB_0383',
'Rhytidhysterium_rufulum_EB_0384',
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'Hysterobrevium_mori_CBS_135_45',
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'Ostreichnion_curtisii_CBS_198_34',
'Hysteroglyphium_fraxini_CBS_109_43',
'Glonium_stellatum_CBS_207_34',
'Hysterobrevium_smilacis_CBS_200_34',
'Hysterobrevium_hyalinum_CBS_237_34',
'Mytilinidion_australe_CBS_301_34',
'Gloniopsis_praelonga_CBS_123337',
'Hysterobrevium_mori_CBS_123563',
'Hysterobrevium_mori_CBS_123564',
'Oedohysterium_pulchrum_DAOM_234345',
'Hysteroglyphium_fraxini_CBS_242_34',
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'Hysterobrevium_smilacis_CMW_18053',
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'Psillogonium_clavisporum_CBS_123340',
'Psillogonium_clavisporum_CBS_123341',
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'Cenococcum_geophilum_HUNT_Al',
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'Lophium_elegans_EB_0366',
'Mytilinidion_mytilinellum_EB_0386',
'Mytilinidion_rhenanum_EB_0341',
'Mytilinidion_tortile_EB_0377',
'Mytilinidion_thujarum_EB_0268',
'Mytilinidion_acicola_EB_0379',
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'Mytilinidion_californicum_EB_0385',
'Eucephalographa_elisae_EB_0347',
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'Glonium_stellatum_ANM_32',
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'Hysterium_barrianum_ANM_1442',
'Oedohysterium_insidens_ANM_1443',
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'Hysterium_angustatum_ANM_85',
'Hysterium_angustatum_SMH_5216',
'Gloniopsis_keynensis_GKM_1010',
'Hysterobrevium_mori_SMH_5286',

'Oedohysterium sinense_EB_0339'
'Rhytidhysterium_rufulum_EB_0384'
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'Hysterobrevium_smilacis_CBS_114601'
'Lophium_mytilinum_CBS_114111'
'Hysterobrevium_smilacis_GKM_426N'
'Hysterobrevium_smilacis_SMH_5280'
'Pailogonium clavissporum_GKM_344'
'Hysterium_angustatum_SMH_5211_0'
'Pailogonium clavissporum_GKM_L172A'
'Hysterobrevium_constrictum_SMH_5211_1'
'Glonium stellatum_ANM_32'
'Hysterium_angustatum_GKM_243A'
'Hysterium_barrinianum_ANM_1442'
'Oedohysterium_insidenis_ANM_1443'
'Hysterium_vermiforme_GKM_1234'
'Hysterium_angustatum_ANM_85'
'Hysterium_angustatum_SMH_5216'
'Gloniopsis_keynensis_GKM_1010'
'Hysterobrevium_mori_SMH_5286'
'Gloniopsis_arciiformis_GKM_L1166A'
'Hysterium_barrinianum_ANM_1495'
'Quasiconcha_reticulata_EB_OR'
'Anteaglonium_latirostrum_L100N_2'
'Anteaglonium_abbreviatum_ANM_925_1'
'Anteaglonium_globosum_ANM_925_2'
'Anteaglonium_globosum_SMH_5283'
'Anteaglonium_parvulum_SMH_5210'

'Roccella_fuciformis_AFTOL_126'
'Arthonia_caesia_AFTOL_775'
'Simonyella_variegata_AFTOL_80'
'Opegrapha_dolomitica_DUKE_0047528'
'Guignardia_gaultheriae_CBS_447_70'
'Botryosphaeria_dothidea_CBS_115476'
'Scorias_spongiosa_CBS_325_33'
'Dothidea_sambuci_DAOM_231303'
'Dothidea_insculpta_CBS_189_58'
'Mycosphaerella_punctiformis_CBS_113265'
'Hysteropatella_clavispora_CBS_247_34'
'Hysteropatella_elliptica_CBS_958_97'
'Myriangium_duriaei_CBS_260_36'
'Phoma_herbarum_CBS_276_37'
'Herpotrichia_diffusa_CBS_250_62'
'Delitschia_winteri_CBS_225_62'
'Lophium_mytilinum_CBS_269_34'
'Bysothecium_circinans_CBS_675_92'
'Leptosphaeria_maculans_DAOM_229267'
'Cochliobolus_heterostrophus_CBS_134_39'
'Pleospora_herbarum_CBS_191_86'
'Pailogonium_clavisporum_CBS_123338'
'Ostreichnion_sassafras_CBS_322_34'
'Mytilinidion_resinicola_CBS_304_34'
'Pailogonium_simulans_CBS_206_34'
'Pailogonium_araucanum_CBS_112412'
'Patefallaria_atra_CBS_958_97'
'Aliquandostipite_khaoyaiensis_CBS_118232'
'Acrogenospora_sphaerocephala_CBS_164_76'

'Oedohysterium_pulchrum_DAOM_234345'
 'Hysteroglyphium_fraxini_CBS_242_34'
 'Psilognomium_araucanum_CMW_17941'
 'Hysterobrevium_smlacis_CMW_18053'
 'Psilognomium_araucanum_CMW_18760'
 'Gloniopsis_praelonga_CMW_19983'
 'Hysterium_angustatum_CMW_20409'
 'Hysterobrevium_mori_CBS_123335'
 'Hysterobrevium_mori_CBS_123336'
 'Psilognomium_clavisporum_CBS_123340'
 'Psilognomium_clavisporum_CBS_123341'
 'Glonium_circumserpens_CBS_123343'
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 'Cenococcum_geophilum_10'
 'Cenococcum_geophilum_HUNT_A1'
 'Farlowiella_carmachaeliana_CBS_179_73'
 'Lophium_elegans_EB_0366'
 'Mytilinidion_mytilinellum_EB_0386'
 'Mytilinidion_rhenanum_EB_0341'
 'Mytilinidion_tortile_EB_0377'
 'Mytilinidion_thujarum_EB_0268'
 'Mytilinidion_acicola_EB_0379'
 'Mytilinidion_acicola_EB_0349'
 'Mytilinidion_californicum_EB_0385'
 'Encephalographa_elisae_EB_0347'
 'Oedohysterium_sinense_EB_0339'
 'Rhytidhysterium_rufulum_EB_0384'
 'Rhytidhysterium_hystrinum_EB_0351'
 'Hysterobrevium_smlacis_CBS_114601'
 'Lophium_mytilinum_CBS_114111'
 'Hysterobrevium_smlacis_GKM_426N'
 'Hysterobrevium_smlacis_SMH_5280'
 'Psilognomium_clavisporum_GKM_344'
 'Hysterium_angustatum_SMH_5211_0'
 'Psilognomium_clavisporum_GKM_L172A'
 'Hysterobrevium_constrictum_SMH_5211_1'
 'Glonium_stellatum_ANM_32'
 'Hysterium_angustatum_GKM_243A'
 'Hysterium_barrianum_ANM_1442'
 'Oedohysterium_insidens_ANM_1443'
 'Hysterium_vermiforme_GKM_1234'
 'Hysterium_angustatum_ANM_85'
 'Hysterium_angustatum_SMH_5216'
 'Gloniopsis_keynensis_GKM_1010'
 'Hysterobrevium_mori_SMH_5286'
 'Gloniopsis_arciiformis_GKM_L166A'
 'Hysterium_barrianum_ANM_1495'
 'Quasiconcha_reticulata_EB_OR'
 'Anteaglonium_latirostrum_L100N_2'
 'Anteaglonium_abbreviatum_ANM_925_1'
 'Anteaglonium_globosum_ANM_925_2'
 'Anteaglonium_globosum_SMH_5283'
 'Anteaglonium_parvulum_SMH_5210'
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BEGIN CODONS;
 CODONPOSSET * CodonPositions =
 N: 1 - 6582 ;

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CODESET * UNTITLED = Universal: all ;
END;
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CHARSET SSU = 1 - 1106 ;
CHARSET LSU = 1107 - 2619 ;
CHARSET RPB1 = 2620 - 3669 ;
CHARSET RPB2 = 3670 - 5601 ;
CHARSET TEF1 = 5602 - 6582 ;
OPTIONS DEFTYPE = unord PolyTcount = MINSTEPS ;
END;
BEGIN TREEBASE;
END;
BEGIN TREES;

[! 2 trees. TreeBASE accession#: Tree7352 Tree7353 ]
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2 'Acrogenospora sphaerocephala CBS_164_76',
3 'Mycosphaerella punctiformis CBS_113265',
4 'Cochliobolus heterostrophus CBS_134_39',
5 'Hysterobrevium constrictum SMH_5211_1',
6 'Farlowiella carmichaeliana CBS_206_36',
7 'Farlowiella carmichaeliana CBS_179_73',
8 'Mytilinidion scolecosporum CBS_305_34',
9 'Mytilinidion mytilinellum CBS_303_34',
10 'Hysteropatella clavispورا CBS_247_34',
11 'Psiloglonium clavispорum CBS_123341',
12 'Psiloglonium clavispорum CBS_123340',
13 'Psiloglonium clavispорum CBS_123339',
14 'Psiloglonium clavispорum CBS_123338',
15 'Hysteropatella elliptica CBS_958_97',
16 'Oedohysterium pulchrum DAOM_234345',
17 'Hysterobrevium smilacis CBS_200_34',
18 'Oedohysterium insidens CBS_238_34',
19 'Anteaglonium abbreviatum ANM_925_1',
20 'Psiloglonium clavispорum GKM_L172A',
21 'Hysterobrevium smilacis CBS_114601',
22 'Leptosphaeria maculans DAOM_229267',
23 'Hysterographium fraxini CBS_242_34',
24 'Mytilinidion resinicola CBS_304_34',
25 'Hysterographium fraxini CBS_109_43',
26 'Botryosphaeria gothidea CBS_115476',
27 'Rhytidhysterium hysterinum EB_0351',
28 'Mytilinidion mytilinellum EB_0386',
29 'Hysterobrevium smilacis CMW_18053',
30 'Anteaglonium latirostrum GKM_1119',
31 'Mytilinidion californicum EB_0385',
32 'Rhytidhysterium rufulum CBS_306_38',
33 'Psiloglonium araucanum CBS_112412',
34 'Bysothecium circinans CBS_675_92',
35 'Guignardia gaultheriae CBS_447_70',
36 'Opegrapha dolomitica DUKE_0047528',
37 'Ostreichnion sassafras CBS_322_34',
38 'Psiloglonium clavispорum GKM_344',
39 'Hysterobrevium smilacis GKM_426N',
40 'Psiloglonium araucanum CMW_18760',
41 'Psiloglonium araucanum CMW_17941',
42 'Mytilinidion rhenanum CBS_135_45',

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43 'Anteaglonium_latirostrum_L100N_2',
44 'Hysterobrevium_smilacis_SMH_5280',
45 'Glonium_circumserpens_CBS_123343',
46 'Oedohysterium_sinense_CBS_123345',
47 'Glonium_circumserpens_CBS_123342',
48 'Psilloglonium_simulans_CBS_206_34',
49 'Mytilinidion_australe_CBS_301_34',
50 'Ostreichnion_curtisii_CBS_198_34',
51 'Hysterium_angustatum_SMH_5211_0',
52 'Rhytidhysterium_rufulum_EB_0384',
53 'Rhytidhysterium_opuntiae_GKM_119',
54 'Herpotrichia_diffusa_CBS_250_62',
55 'Anteaglonium_globosum_ANM_925_2',
56 'Gloniopsis_arciiformis_GKM_I166A',
57 'Oedohysterium_insidents_ANM_1443',
58 'Gloniopsis_praelonga_CBS_123337',
59 'Rhytidhysterium_rufulum_GKM_361A',
60 'Gloniopsis_subrugosa_CBS_123346',
61 'Hysterium_angustatum_CBS_123334',
62 'Hysterium_angustatum_CBS_236_34',
63 'Gloniopsis_praelonga_CBS_112415',
64 'Rhytidhysterium_rufulum_EB_0384',
65 'Encephalographa_elisae_EB_0347',
66 'Hysterobrevium_mori_CBS_123335',
67 'Hysterobrevium_mori_CBS_123564',
68 'Hysterobrevium_mori_CBS_123563',
69 'Hysterobrevium_mori_CBS_245_34',
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71 'Rhytidhysterium_rufulum_EB_0382',
72 'Psilloglonium_simulans_ANM_1557',
73 'Mytilinidion_andinense_EB_0330',
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75 'Anteaglonium_globosum_SMH_5283',
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79 'Gloniopsis_keynensis_GKM_1010',
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81 'Hysterium_vermiforme_GKM_1234',
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84 'Gloniopsis_subrugosa_GKM_1214',
85 'Hysterium_pulicaria_CBS_123377',
86 'Simonvella_variegata_AFTOL_80',
87 'Roccella_fuciformis_AFTOL_126',
88 'Mytilinidion_thujarum_EB_0268',
89 'Mytilinidion_rhenanum_EB_0341',
90 'Pleospora_herbarum_CBS_191_86',
91 'Dothidea_insculpta_CBS_189_58',
92 'Hysterium_hyalinum_CBS_237_34',
93 'Delitschia_winteri_CBS_225_62',
94 'Myriangium_duriaei_CBS_260_36',
95 'Quasiconcha_reticulata_EB_QR',
96 'Hysterobrevium_mori_SMH_5286',
97 'Mytilinidion_acicola_EB_0379',
98 'Gloniopsis_subrugosa_SMH_557',
99 'Lophium_mytilinum_CBS_123344',
100 'Hysterium_barrianum_ANM_1495',
101 'Hysterium_barrianum_ANM_1442',

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102 'Mytilinidion_acicola_EB_0349',
103 'Mytilinidion_tortile_EB_0377',
104 'Cenococcum_geophilum_HUNT_A1',
105 'Hysterobrevium_mori_GKM_1013',
106 'Hysterobrevium_mori_SMH_5273',
107 'Patellaria_atrata_CBS_958_97',
108 'Dothidea_sambuci_DAOM_231303',
109 'Scorias_spongiosa_CBS_325_33',
110 'Lophium_mytilinum_CBS_114111',
111 'Glonium_stellatum_CBS_207_34',
112 'Lophium_mytilinum_CBS_269_34',
113 'Hysterium_angustatum_ANM_85',
114 'Cenococcum_geophilum_CGMONT',
115 'Phoma_herbarum_CBS_276_37',
116 'Arthonia_caesia_AFTOL_775',
117 'Elsinoe_veneta_CBS_150_27',
118 'Glonium_stellatum_ANM_32',
119 'Lophium_elegans_EB_0366',
120 'Cenococcum_geophilum_10',
121 'Jahnula_aquatica_R68_1',
122

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TREE 'Fig. 1' = [&R]
(87, ((116, (65, ((109, 3), ((94, 117), (91, 108))), (((1, 121), (2, (7, 6))), (((31, 28), (119, ((9, (49, ((73, 88), (103, (97, 102))))), ((112, (95, 110))), (99, (8, (24, (42, (89))))), ((114, 120), (104, ((118, 111), (47, 45))))), ((53, (((16, (46, (83, (18, 57))), (105, 69))), (79, 56), (60, (58, (78, 63))))), ((27, ((64, (59, 32))), (71, (70, 52))), (84, 98))), (37, ((50, (101, 100)), (113, 81)), (80, (51, 77)), (82, (62, (61, 85))))), (21, ((17, 44), (106, (67, (68, (66, 76))))), (96, (5, (39, 29))))), ((14, (11, (12, 13)), (38, 20)), (72, 48), (41, (40, 33))))), (93, ((54, (34, (115, (22, (4, 90))))), (30, (43, ((55, 75), (19, 74))))), (92, (25, 23))))), ((35, 26), (107, (15, 10))))), (36, 86));
TREE 'MB Tree' = [&R]
(87, (116, (65, (((35, 26), (107, (10, 15))), ((93, ((54, (34, (115, (22, (4, 90))))), ((30, 43), ((19, 74), (55, 75))))), ((119, ((112, (110, 95))), (99, (8, (24, (42, 89))))), (9, (49, ((73, 88), (103, (97, 102))))), (28, 31)), (((14, 13, 12, 11, (38, 20)), ((48, 72), (33, 41, 40))), (21, (96, (106, (17, 44), (68, 67), (66, 76))), (5, (29, 39))))), (37, (((82, (62, (85, 61))), (80, (77, 51))), (50, (101, 100)), (81, 113))), (53, ((56, (79, (60, (58, (63, 78))), (16, (46, (83, (18, 57))), (105, 69))))), (27, ((64, (59, 32))), (71, (70, 52))))), (84, 98))), ((114, 120, (104, ((47, 45), (111, 118))))), (92, (25, 23))))), ((1, 121), (6, (2, 7))))), ((109, 3), ((108, 91), (94, 117))))), (86, 36));

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END;