

Phylogenetic tree showing relationships between various plant groups, including Magnoliopsida, Ginkgopsida, Polypodiopsida, Marchantiopsida, and Chlorophyceae. The tree is rooted at the bottom and branches upwards. The labels for the taxa are color-coded: blue for Magnoliopsida, green for Ginkgopsida, pink for Polypodiopsida, red for Marchantiopsida, and yellow for Chlorophyceae. The tree is divided into two main sections by a vertical line, labeled 'OG0001267_162_before' on the left and 'OG0001267_162_after' on the right. The taxa are listed in a hierarchical manner, with some taxa having multiple accessions or identifiers. The tree shows a clear separation between the major groups, with Magnoliopsida and Ginkgopsida being sister groups, and Polypodiopsida and Marchantiopsida being sister groups. Chlorophyceae is shown as a separate group at the bottom. The tree is rooted at the bottom, with the root node labeled 'OG0001267_162_before' and 'OG0001267_162_after'.

OG0001267_162_before

OG0001267_162_after

Magnoliopsida_GLY_0057384
Magnoliopsida_GLY_0057385
Magnoliopsida_GLY_0022871
Magnoliopsida_GLY_0057386
Magnoliopsida_PHA_0001742
Magnoliopsida_PHA_0001743
Magnoliopsida_ardaradu.V14167.gnm1.Aradu.A02g00372
Magnoliopsida_arharahy.Tifrunner.gnm1.Arahy.02g00403
Magnoliopsida_LOC107624247
Magnoliopsida_arharahy.Tifrunner.gnm1.Arahy.12g00507
Magnoliopsida_MED_0038131
Magnoliopsida_GLY_0070537
Magnoliopsida_PHA_0008392
Magnoliopsida_CEC_0020832
Magnoliopsida_CEC_0031152
Magnoliopsida_LOC107648068
Magnoliopsida_arharahy.Tifrunner.gnm1.Arahy.16g01384
Magnoliopsida_ardaradu.V14167.gnm1.Aradu.A06g00167
Magnoliopsida_arharahy.Tifrunner.gnm1.Arahy.06g00183
Magnoliopsida_GLY_0010777
Magnoliopsida_GLY_0070536
Magnoliopsida_PHA_0006749
Magnoliopsida_MED_0024034
Magnoliopsida_CEC_0031151
Magnoliopsida_POP_0016383
Magnoliopsida_POP_0016604
Magnoliopsida_PRU_0004448
Magnoliopsida_ARA_0001597
Magnoliopsida_ARA_0002038
Magnoliopsida_ARA_0002959
Magnoliopsida_ARA_0013023
Magnoliopsida_ARA_0022232
Magnoliopsida_ARA_0022201
Magnoliopsida_CUC_0020683
Magnoliopsida_COF_0004512
Magnoliopsida_COF_0004515
Magnoliopsida_COF_0004513
Magnoliopsida_COF_0004516
Magnoliopsida_MIM_0026210
Magnoliopsida_SOL_0009135
Magnoliopsida_HEL_0013537
Magnoliopsida_HEL_0021033
Magnoliopsida_HEL_0013854
Magnoliopsida_HEL_0014408
Magnoliopsida_HEL_0041350
Magnoliopsida_VIT_0012626
Magnoliopsida_ACT_0009636
Magnoliopsida_AQU_0003633
Magnoliopsida_CIN_0001200
Magnoliopsida_CIN_0001286
Magnoliopsida_CIN_0014395
Magnoliopsida_LIR_0045284
Magnoliopsida_LIR_0045285
Magnoliopsida_LIR_0005309
Magnoliopsida_ASP_0010222
Magnoliopsida_ASP_0012905
Magnoliopsida_ASP_0015869
Magnoliopsida_ASP_0013806
Magnoliopsida_AMB_0016333
Magnoliopsida_BRA_0044274
Magnoliopsida_BRA_0055324
Magnoliopsida_BRA_0052753
Magnoliopsida_BRA_0052828
Magnoliopsida_BRA_0053961
Magnoliopsida_BRA_0044449
Magnoliopsida_BRA_0054482
Magnoliopsida_BRA_0043566
Magnoliopsida_ORY_0003253
Magnoliopsida_ORY_0005567
Magnoliopsida_ORY_0006540
Magnoliopsida_ORY_0024424
Magnoliopsida_ORY_0025123
Magnoliopsida_ORY_0002960
Magnoliopsida_BRA_0016358
Magnoliopsida_ORY_0017544
Magnoliopsida_NYM_0031205
Ginkgopsida_GIN_0000233
Ginkgopsida_GIN_0000234
Ginkgopsida_GIN_0000235
Ginkgopsida_GIN_0000236
Ginkgopsida_GIN_0021309
Ginkgopsida_GIN_0024648
Magnoliopsida_LIR_0011418
Magnoliopsida_LIR_0012338
Magnoliopsida_LIR_0013112
Magnoliopsida_LIR_0012941
Magnoliopsida_LIR_0014247
Magnoliopsida_LIR_0012329
Magnoliopsida_LIR_0014230
Magnoliopsida_LIR_0011209
Magnoliopsida_ASP_0004411
Magnoliopsida_NYM_0028712
Magnoliopsida_NYM_0028877
Magnoliopsida_NYM_0026550
Magnoliopsida_NYM_0028100
Magnoliopsida_NYM_0028902
Magnoliopsida_NYM_0027475
Polypodiopsida_CER_0049493
Ginkgopsida_GIN_0021152
Ginkgopsida_GIN_0021162
Ginkgopsida_GIN_0000009
Ginkgopsida_GIN_0000003
Ginkgopsida_GIN_0006702
Ginkgopsida_GIN_0008646
Ginkgopsida_GIN_0007699
Ginkgopsida_GIN_0007702
Ginkgopsida_GIN_0023936
Ginkgopsida_GIN_0004591
Magnoliopsida_AMB_0007945
Ginkgopsida_GIN_0003501
Ginkgopsida_GIN_0003500
Ginkgopsida_GIN_0024368
Polypodiopsida_CER_0013544
Polypodiopsida_CER_0043577
Polypodiopsida_CER_0042193
Polypodiopsida_CER_0042194
Polypodiopsida_CER_0008740
Polypodiopsida_CER_0010017
Polypodiopsida_CER_0010442
Marchantiopsida_MAR_0006612
Marchantiopsida_MAR_0018253
Marchantiopsida_MAR_0014838
Magnoliopsida_arharahy.Tifrunner.gnm1.Arahy.16g03283
Magnoliopsida_arharahy.Tifrunner.gnm1.Arahy.16g03450
Magnoliopsida_LOC107605190
Magnoliopsida_arharahy.Tifrunner.gnm1.Arahy.16g03282
Magnoliopsida_ardaradu.V14167.gnm1.Aradu.A06g03087
Magnoliopsida_arharahy.Tifrunner.gnm1.Arahy.16g03449
Magnoliopsida_arharahy.Tifrunner.gnm1.Arahy.16g03451
Magnoliopsida_LOC107605189
Magnoliopsida_arharahy.Tifrunner.gnm1.Arahy.16g03286
Magnoliopsida_ardaradu.V14167.gnm1.Aradu.A06g03091
Magnoliopsida_arharahy.Tifrunner.gnm1.Arahy.16g03452
Magnoliopsida_MED_0001089
Magnoliopsida_GLY_0062489
Magnoliopsida_PHA_0028929
Magnoliopsida_ACT_0038919
Magnoliopsida_ARA_0024435
Magnoliopsida_HEL_0000541
Magnoliopsida_MIM_0001959
Magnoliopsida_COF_0020079
Magnoliopsida_SOL_0020770
Magnoliopsida_POP_0038491
Magnoliopsida_PRU_0041218
Magnoliopsida_VIT_0027981
Magnoliopsida_AQU_0018963
Magnoliopsida_AQU_0018964
Magnoliopsida_CIN_0011033
Magnoliopsida_LIR_0010492
Magnoliopsida_CIN_0020742
Magnoliopsida_AMB_0009669
Magnoliopsida_NYM_0005192
Magnoliopsida_BRA_0002113
Magnoliopsida_ORY_0013757
Magnoliopsida_ASP_0020776
Ginkgopsida_GIN_0013127
Ginkgopsida_GIN_0017133
Chlorophyceae_DUN_0007879
Chlorophyceae_DUN_0008660
Chlorophyceae_CHL_0014164
Chlorophyceae_CHL_0002957
Marchantiopsida_MAR_0024610

Magnoliopsida_GLY_0057384
Magnoliopsida_GLY_0057385
Magnoliopsida_GLY_0022871
Magnoliopsida_GLY_0057386
Magnoliopsida_PHA_0001742
Magnoliopsida_PHA_0001743
Magnoliopsida_ardaradu.V14167.gnm1.Aradu.A02g00372
Magnoliopsida_arharahy.Tifrunner.gnm1.Arahy.02g00403
Magnoliopsida_LOC107624247
Magnoliopsida_arharahy.Tifrunner.gnm1.Arahy.12g00507
Magnoliopsida_MED_0038131
Magnoliopsida_GLY_0070537
Magnoliopsida_PHA_0008392
Magnoliopsida_CEC_0020832
Magnoliopsida_CEC_0031152
Magnoliopsida_LOC107648068
Magnoliopsida_arharahy.Tifrunner.gnm1.Arahy.16g01384
Magnoliopsida_ardaradu.V14167.gnm1.Aradu.A06g00167
Magnoliopsida_arharahy.Tifrunner.gnm1.Arahy.06g00183
Magnoliopsida_GLY_0010777
Magnoliopsida_GLY_0070536
Magnoliopsida_PHA_0006749
Magnoliopsida_MED_0024034
Magnoliopsida_CEC_0031151
Magnoliopsida_POP_0016383
Magnoliopsida_POP_0016604
Magnoliopsida_PRU_0004448
Magnoliopsida_ARA_0001597
Magnoliopsida_ARA_0002038
Magnoliopsida_ARA_0002959
Magnoliopsida_ARA_0013023
Magnoliopsida_ARA_0022232
Magnoliopsida_ARA_0022201
Magnoliopsida_CUC_0020683
Magnoliopsida_COF_0004512
Magnoliopsida_COF_0004515
Magnoliopsida_COF_0004513
Magnoliopsida_COF_0004516
Magnoliopsida