**Table S1.** Taxa used for phylogenetic analyses and divergence time estimation of Pleosporales in this study (excluding *Alteraria* species).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Species name** | **Strains/Voucher no.** | **GenBank accession number** | | | | |
| **ITS** | **LSU** | **SSU** | ***TEF1-α*** | ***RPB2*** |
| *Aigialus grandis* | BCC 18419 | - | GU479774 | GU479738 | GU479838 | GU479813 |
| *Aigialus mangrovei* | BCC 33563 | - | GU479776 | GU479741 | GU479840 | GU479815 |
| *Aigialus parvus* | BCC 18403 | - | GU479778 | GU479744 | GU479842 | GU479817 |
| *Aigialus rhizophorae* | BCC 33572 | - | GU479780 | GU479745 | GU479844 | GU479819 |
| *Aliquandostipite khaoyaiensis* | CBS 118232 | - | GU301796 | - | GU349048 | - |
| *Amniculicola immersa* | CBS 123083 | - | FJ795498 | GU456295 | GU456273 | NG\_056964 |
| *Amorosia littoralis* | NN 6654 | AM292047 | AM292055 | AM292056 | - | - |
| *Angustimassarina populi* | MFLUCC 13–0034 | KP899137 | KP888642 | KP899128 | KR075164 | - |
| *Anteaglonium abbreviatum* | GKM219N | - | GQ221881 | - | GQ221916 | - |
| *Anteaglonium parvulum* | GKM 1029 | MN582759 | GQ221878 | - | GQ221915 | - |
| *Arthonia dispersa* | UPSC2583 | - | AY571381 | AY571379 | - | - |
| *Ascochyta pisi* | AFTOL-ID 1583 | - | DQ678070 | DQ678018 | DQ677913 | DQ677967 |
| *Ascocratera manglicola* | BCC 09270 | - | GU479782 | GU479747 | GU479846 | GU479821 |
| *Astrosphaeriella fusispora* | MFLUCC 10–0555 | - | KT955462 | KT955443 | KT955425 | KT955413 |
| *Bahusandhika indica* | GUFCC 18001 | KF460273 | KF460274 | - | - | - |
| *Berkleasmium micronesicum* | BCC 8141 | DQ280262 | DQ280272 | DQ280268 | - | - |
| *Berkleasmium nigroapicale* | BCC 8220 | DQ280261 | DQ280273 | DQ280269 | - | - |
| *Bimuria novae-zelandiae* | CBS 107.79 | MH861181 | NG\_058623 | NG\_061017 | DQ471087 | DQ471159 |
| *Boeremia exigua* | CBS 431.74 | FJ427001 | JX681074 | EU754084 | KY484687 | KT389569 |
| *Botryosphaeria dothidea* | CBS 115476 | KF766151 | NG\_027577 | DQ677998 | DQ767637 | GU357802 |
| *Capnodium salicinum* | CBS 131.34 | MH855469 | DQ678050 | DQ677997 | - | KT216553 |
| *Caryospora minima* | - | - | EU196550 | EU196551 | - | - |
| *Cladosporium cladosporioides* | CBS 170.54 | MH857281 | AY213694 | DQ678004 | FJ936162 | GU357790 |
| *Coelodictyosporium pseudodictyosporium* | MFLUCC 13–0451 | KR025858 | KR025862 | - | - | - |
| *Corynespora cassiicola* | CBS 100822 | - | GU301808 | GU296144 | GU349052 | GU371742 |
| *Corynespora smithii* | CABI 5649b | - | GU323201 | - | GU349018 | GU371783 |
| *Cyclothyriella rubronotata* | CBS 141486 | NR\_147651 | KX650544 | KX650507 | KX650519 | KX650574 |
| *Decaisnella formosa* | BCC 25617 | NR\_147651 | GQ925847 | GQ925834 | GU479850 | KX650574 |
| *Decaisnella formosa* | BCC 25616 | - | GQ925846 | GQ925833 | GU479851 | GU479825 |
| *Delitschia chaetomioides* | SMH 3253.2 | - | GU390656 | - | GU327753 | - |
| *Delitschia winteri* | CBS 225.62 | - | DQ678077 | DQ678026 | DQ677922 | DQ677975 |
| *Dendrographa leucophaea* | AFTOL-ID 355 | DQ842015 | AF279382 | AF279381 | DQ842007 | GU561849 |
| *Dendryphion comosum* | CBS 208.69 | MH871026 | - | - | - | MH859293 |
| *Dissoconium aciculare* | CBS 204.89 | AY725520 | GU214419 | GU214523 | - | KX288435 |
| *Exosporium stylobatum* | CBS 160.30 | JQ044428 | JQ044447 | - | - | - |
| *Gloniopsis calami* | MFLUCC 15–0739 | KX669036 | KX646363 | KX669034 | KX671965 | - |
| *Gloniopsis praelonga* | CBS 112415 | - | FJ161173 | FJ161134 | FJ161090 | FJ161113 |
| *Guttulispora crataegi* | MFLUCC 13–0442 | KP899134 | KP888639 | KP899125 | KR075161 | - |
| *Halotthia posidoniae* | BBH 22481 | - | GU479786 | GU479752 | - | - |
| *Herpotrichia diffusa* | CBS 250.62 | - | DQ678071 | DQ678019 | DQ677915 | DQ677968 |
| *Hypsostroma caimitalense* | GKM 1165 | - | GU385180 | - | - | - |
| *Hypsostroma saxicola* | SMH 5005 | - | GU385181 | - | - | - |
| *Hysterium angustatum* | CBS 236.34 | MN608547 | FJ161180 | GU397359 | FJ161096 | FJ161117 |
| *Jahnula seychellensis* | SS2113 | - | EF175665 | EF175644 | - | - |
| *Katumotoa bambusicola* | KT 1517a | LC014560 | AB524595 | AB524454 | AB539108 | AB539095 |
| *Lentimurispora urniformis* | MFLUCC 18–0497 | - | MH179144 | MH179160 | MH188055 | - |
| *Leptosphaeria doliolum* | CBS 505.75 | MH860947 | GQ387576 | GQ387515 | GU349069 | KT389640 |
| *Leptoxyphium cacuminum* | MFLUCC 10–0049 | - | JN832602 | JN832587 | - | - |
| *Ligninsphaeria jonesii* | MFLUCC 15–0641 | - | KU221037 | - | - | - |
| *Ligninsphaeria jonesii* | GZCC 15–0080 | - | KU221038 | - | - | - |
| *Lignosphaeria fusispora* | MFLUCC 11–0377 | KP899140 | KP888646 | - | - | - |
| *Lignosphaeria thailandica* | MFLUCC 11–0376 | KP899139 | KP888645 | - | - | - |
| *Lindgomyces ingoldianus* | ATCC 200398 | JF419898 | AB521736 | AB521719 | - | - |
| *Lindgomyces rotundatus* | KT 1096 | - | AB521740 | AB521723 | - | - |
| *Lophiostoma macrostomum* | KT 508 | - | AB619010 | AB618691 | LC001751 | - |
| *Lophiotrema lignicola* | CBS 122364 | MH863205 | GU301836 | GU296166 | GU349072 | LC194424 |
| *Lophiotrema nucula* | CBS 627.86 | LC194497 | GU301837 | GU296167 | GU349073 | GU371792 |
| *Massaria anomia* | CBS 591.78 | - | GU301839 | GU296169 | - | GU371769 |
| *Massaria inquinans* | M19 | MH863726 | HQ599402 | HQ599444 | HQ599342 | HQ599460 |
| *Massarina corticola* | CBS 154.93 | - | FJ795448 | FJ795491 | - | FJ795465 |
| *Massarina eburnea* | CBS 473.64 | - | MH877786 | GU296170 | GU349040 | FJ795466 |
| *Massariosphaeria phaeospora* | CBS 611.86 | - | GU301843 | GU296173 | - | GU371794 |
| *Mauritiana rhizophorae* | BCC 28866 | - | GU371824 | GU371832 | GU371817 | - |
| *Melanomma pulvis-pyrius* | CBS 124080 | MH863349 | GU456323 | GU456302 | GU456265 | GU456350 |
| *Murilentithecium clematidis* | MFLUCC 14–0562 | KM408756 | KM408759 | NG\_061185 | KM454445 | KM454447 |
| *Murispora rubicunda* | IFRD 2017 | - | FJ795507 | GU456308 | GU456289 | - |
| *Neoastrosphaeriella krabiensis* | MFLUCC 11–0025 | NR\_120004 | JN846729 | JN846739 | - | - |
| *Neoroussoella bambusae* | MFLUCC 11–0124 | KJ474827 | KJ474839 | - | KJ474848 | KJ474856 |
| *Neotrematosphaeria biappendiculata* | KTC 1124 | - | GU205227 | GU205256 | - | - |
| *Nigrograna fuscidula* | CBS 141476 | KX650547 | KX650547 | KX650509 | KX650522 | KX650576 |
| *Nigrograna mackinnonii* | CBS 110022 | KF015653 | GQ387614 | GQ387553 | KF407985 | KF015704 |
| *Occultibambusa bambusae* | MFLUCC 13–0855 | KU940123 | KU863112 | KU872116 | KU940193 | KU940170 |
| *Occultibambusa chiangraiensis* | MFLUCC 16–0380 | - | KX655546 | KX655551 | KX655561 | KX655566 |
| *Ohleria modesta* | MGC | KX650562 | KX650562 | - | KX650533 | KX650582 |
| *Ohleria modesta* | OM | KX650563 | KX650563 | KX650513 | KX650534 | KX650583 |
| *Paradictyoarthrinium diffractum* | MFLUCC 13–0466 | KP744455 | KP744498 | KP753960 | - | KX437764 |
| *Paradictyoarthrinium hydei* | MFLUCC 17–2512 | MG747498 | MG747497 | MH454349 | - | MG780232 |
| *Phaeoseptum aquaticum* | CBS 123113 | KY940803 | JN644072 | - | - | - |
| *Phaeoseptum terricola* | MFLUCC 10–0102 | NR\_158869 | MH105779 | MH105780 | MH105781 | MH105782 |
| *Phyllosticta capitalensis* | CBS 226.77 | FJ538336 | KF206289 | KF766300 | FJ538394 | KY855820 |
| *Piedraia hortae* | CBS 480.64 | KF902289 | GU214466 | AY016349 | - | - |
| *Pleomassaria siparia* | CBS 279.74 | MH860853 | DQ678078 | DQ678027 | DQ677923 | KT216532 |
| *Pleopunctum ellipsoideum* | MFLUCC 19–0390 | NR\_171090 | MK804517 | MK804514 | MK828510 | - |
| *Pleopunctum pseudoellipsoideum* | MFLUCC 19–0391 | MT627717 | MK804518 | - | MK828511 | MT878455 |
| *Pleospora herbarum* | CBS 191.86 | MH861935 | MH873624 | GU238232 | KC584731 | KC584471 |
| *Preussia funiculata* | CBS 659.74 | - | GU301864 | GU296187 | GU349032 | GU371799 |
| *Prosthemium orientale* | MAFF 239509 | AB554084 | AB553748 | AB553641 | - | - |
| *Pseudoastrosphaeriella bambusae* | MFLUCC 11–0205 | - | KT955475 | KT955455 | KT955437 | KT955414 |
| *Pseudoastrosphaeriella thailandensis* | MFLUCC 10–0553 | - | KT955477 | KT955456 | KT955439 | KT955411 |
| *Psiloglonium araucanum* | CBS 112412 | - | FJ161172 | FJ161133 | FJ161089 | FJ161112 |
| *Pteridiospora javanica* | MFLUCC 11–0159 | - | KJ742940 | KJ739607 | KJ739605 | - |
| *Racodium rupestre* | L346 | GU067666 | EU048583 | EU048575 | - | - |
| *Racodium rupestre* | L424 | GU067669 | EU048582 | EU048577 | - | - |
| *Rimora mangrovei* | JK 5246A | - | GU301868 | GU296193 | - | GU371759 |
| *Roccella fuciformis* | Tehler 8171 | AJ634015 | FJ638979 | - | - | FJ639038 |
| *Roussoella nitidula* | MFLUCC 11–0634 | KJ474834 | KJ474842 | - | KJ474851 | KJ474858 |
| *Salsuginea ramicola* | KT 2597.1 | - | GU479800 | GU479767 | GU479861 | GU479833 |
| *Salsuginea ramicola* | KT 2597.2 | - | GU479801 | GU479768 | GU479862 | GU479834 |
| *Schismatomma decolorans* | Ertz 5003 (BR) | AY548808 | NG\_027622 | NG\_013155 | - | - |
| *Scorias spongiosa* | CBS 325.33 | - | KF901821 | - | MN829417 | KT216542 |
| *Sigarispora ravennica* | MFLUCC 14–0005 | NR\_148079 | KP698414 | KP698415 | - | - |
| *Sporormia fimetaria* | UPS:Dissing Gr.81.194 | GQ203769 | GQ203729 | - | - | - |
| *Teichospora parva* | GKM 169 N | - | GU385165 | - | GU327768 | - |
| *Teichospora striata* | JK5678I | - | GU301813 | GU296149 | GU479852 | GU371758 |
| *Teichospora tennesseensis* | ANM 911 | - | GU385207 | - | GU327769 | - |
| *Tetraplosphaeria sasicola* | MAFF 239677 | MN937236 | AB524631 | AB524490 | AB524838 | - |
| *Thyridaria acaciae* | CBS 138873 | KP004469 | KP004497 | - | - | - |
| *Thyridaria broussonetiae* | CBS 141481 | KX650568 | KX650568 | KX650515 | KX650539 | KX650586 |
| *Thyridaria macrostomoides* | GKM 1033 | - | GU385190 | - | GU327776 | - |
| *Thyridaria macrostomoides* | GKM 1159 | - | GU385185 | - | GU327778 | - |
| *Thyridaria macrostomoides* | GKM 224N | - | GU385191 | - | GU327777 | - |
| *Torula herbarum* | CBS 111855 | KF443409 | KF443386 | KF443391 | KF443403 | KF443396 |
| *Torula herbarum* | CPC 24114 | KR873260 | KR873288 | - | - | - |
| *Torula hollandica* | CBS 220.69 | KF443406 | KF443384 | KF443389 | KF443401 | KF443393 |
| *Triplosphaeria maxima* | MAFF 239682 | NR\_119407 | AB524637 | AB524496 | AB524843 | - |
| *Tubeufia chiangmaiensis* | MFLUCC 11–0514 | KF301530 | KF301538 | KF301543 | KF301557 | - |
| *Tubeufia javanica* | MFLUCC 12–0545 | KJ880034 | KJ880036 | KJ880035 | KJ880037 | - |
| *Westerdykella ornata* | CBS 379.55 | MH857522 | GU301880 | GU296208 | GU349021 | GU371803 |
| *Wicklowia aquatica* | F76-2 | - | GU045445 | GU266232 | - | GU371813 |
| *Zopfia rhizophila* | CBS 207.26 | - | DQ384104 | DQ384086 | - | - |