

Article

Three novel cheiroid hyphomycetes in *Dictyocheiropsora* and *Dictyosporium* (Dictyosporiaceae) from freshwater habitats in Guangdong and Guizhou Provinces, China

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Table S1. Taxa used for phylogenetic analyses and their corresponding GenBank accession numbers. Newly generated sequences are indicated in red, ex-type strains are indicated in bold, and missing sequences are indicated with “–”.

| Species | Source | GenBank accession number | | | |
|---|-----------------|--------------------------|----------|----------|---------------|
| | | LSU | SSU | ITS | <i>tefl-a</i> |
| <i>Aquadictyospora clematidis</i> | MFLUCC 17-2080 | MT214545 | MT226664 | MT310592 | MT394727 |
| <i>Aquadictyospora lignicola</i> | MFLUCC 17-1318 | MF948629 | – | MF948621 | MF953164 |
| <i>Cheirosporium triseriale</i> | HMAS 180703 | EU413954 | – | EU413953 | – |
| <i>Dendryphiella phitsanuloken-sis</i> | MFLUCC 17-2513 | MG754401 | MG754402 | MG754400 | – |
| <i>Dendryphiella variabilis</i> | CBS 584.96 | LT963454 | – | LT963453 | – |
| <i>Dictyocheiropsora acaciae</i> | SDBR-CMU456 | OP965374 | – | OP965334 | OQ000840 |
| <i>Dictyocheiropsora acaciae</i> | SDBR-CMU455 | OP965373 | – | OP965332 | OQ000839 |
| <i>Dictyocheiropsora aquadulcis</i> | MFLUCC 17-2571 | MK634542 | – | MK634545 | – |
| <i>Dictyocheiropsora aquatica</i> | KUMCC 15-0305 | KY320513 | – | KY320508 | – |
| <i>Dictyocheiropsora bannica</i> | KH 332 | AB807513 | AB797223 | LC014543 | AB808489 |
| <i>Dictyocheiropsora bannica</i> | MFLUCC 16-0874 | MH381774 | – | MH381765 | – |
| <i>Dictyocheiropsora cheiro-spora</i> | KUMCC 17-0035 | MF177036 | MF928073 | MF177035 | – |
| <i>Dictyocheiropsora Chiangmaiensis</i> | MFLUCC 22-0097 | OP526640 | OP526621 | OP526630 | OP542232 |
| <i>Dictyocheiropsora clematidis</i> | MFLUCC 17-2089 | MT214546 | MT226665 | MT310593 | MT394728 |
| <i>Dictyocheiropsora gareth-jonesii</i> | MFLUCC 16-0909 | KY320514 | – | KY320509 | – |
| <i>Dictyocheiropsora gareth-jonesii</i> | DLUCC 0848 | MF948631 | – | MF948623 | MF953166 |
| <i>Dictyocheiropsora gigantea</i> | BCC 11346 | – | – | DQ018095 | – |
| <i>Dictyocheiropsora heptaspora</i> | CBS 396.59 | – | DQ018082 | DQ018090 | – |
| <i>Dictyocheiropsora indica</i> | MFLUCC 15-0056 | MH381772 | MH381757 | MH381763 | MH388817 |
| <i>Dictyocheiropsora lithocarpi</i> | MFLUCC 17-2537 | MK347999 | MK347888 | MK347781 | – |
| <i>Dictyocheiropsora metroxylo-nis</i> | MFLUCC 15-0028a | MH742313 | MH742317 | MH742321 | – |
| <i>Dictyocheiropsora metroxylo-nis</i> | MFLUCC 15-0028b | MH742314 | MH742318 | MH742322 | MH764301 |
| <i>Dictyocheiropsora multiappendiculata</i> | KUNCC 22-10736 | OP526643 | OP526624 | OP526633 | OP542235 |
| <i>Dictyocheiropsora multiappendiculata</i> | KUNCC 22-10734 | OP526642 | OP526623 | OP526632 | OP542234 |

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|--|--------------------------------|--------------------------|----------|-----------|---------------|
| | | LSU | SSU | ITS | <i>tef1-a</i> |
| <i>Dictyocheiropora nabanheensis</i> | MFLUCC 17-0562 | MH376712 | – | MH388340 | MH388375 |
| <i>Dictyocheiropora nabanheensis</i> | MFLU 19-0538 | MN511737 | – | MN513035 | – |
| <i>Dictyocheiropora nabanheensis</i> | C317 | MK347973 | MK347862 | MK347756 | – |
| <i>Dictyocheiropora pandanicola</i> | MFLUCC 16-0365 | MH376713 | MH388309 | MH388341 | MH388376 |
| <i>Dictyocheiropora pseudomusae</i> | yone 234 | AB807520 | AB797230 | LC014550 | AB808496 |
| <i>Dictyocheiropora rotunda</i> | MFLUCC 14-0293 | KU179100 | KU179101 | KU179099 | – |
| <i>Dictyocheiropora rotunda</i> | MFLUCC 17-0222 | MH381773 | – | MH381764 | MH388818 |
| <i>Dictyocheiropora suae</i> | KUNCC 22-12424 | OP526641 | OP526622 | OP526631 | OP542233 |
| <i>Dictyocheiropora submersa</i> | MHZU 24-0282 | PP326216 | PP335106 | PP326193 | PP333133 |
| <i>Dictyocheiropora subramaniani</i> | BCC 3503 | – | – | DQ018094 | – |
| <i>Dictyocheiropora taiwanense</i> | MFLUCC 17-2654 | MK495820 | – | MK495821 | – |
| <i>Dictyocheiropora thailandica</i> | MFLUCC 18-0987 | MN913743 | – | MT627734 | – |
| <i>Dictyocheiropora vinaya</i> | MFLUCC 14-0294 | KU179103 | KU179104 | KU179102 | – |
| <i>Dictyocheiropora xishuangbannaensis</i> | KUMCC 17-0181 | MH376714 | MH388310 | MH388342 | MH388377 |
| <i>Dictyocheiropora xishuangbannaensis</i> | MFLUCC 17-2087 | MT214547 | MT226666 | MT310594 | MT394729 |
| <i>Dictyosporium alatum</i> | ATCC 34953 | DQ018101 | DQ018080 | DQ018088 | – |
| <i>Dictyosporium appendiculatum</i> | KUMCC 17-0311 | MH376715 | – | MH388343 | – |
| <i>Dictyosporium aquaticum</i> | MF 1318 | – | – | KM610236 | – |
| <i>Dictyosporium bulbosum</i> | yone 221 | AB807511 | AB797221 | LC014544 | AB808487 |
| <i>Dictyosporium digitatum</i> | SDBR-CMU459 | OP965377 | – | OP965337 | OQ000841 |
| <i>Dictyosporium digitatum</i> | KUMCC17-0269 | MH376716 | MH388311 | MH388344 | – |
| <i>Dictyosporium digitatum</i> | KH401 | AB807515 | AB797225 | LC014545 | AB808491 |
| <i>Dictyosporium digitatum</i> | KT2660 | AB807518 | AB797228 | LC014546 | AB808494 |
| <i>Dictyosporium digitatum</i> | yone 208 | AB807512 | AB797222 | LC014547 | AB808488 |
| <i>Dictyosporium digitatum</i> | MHZU 24-0285 | PP326214 | PP335104 | PP326191 | PP333111 |
| <i>Dictyosporium duliuijiangense</i> | GZCC 19-0426 | MW133815 | – | OQ842725 | OQ850746 |
| <i>Dictyosporium elegans</i> | NBRC 32502 | DQ018100 | DQ018079 | DQ018087 | – |
| <i>Dictyosporium guangdongense</i> | MHZU 24-0283 | PP326213 | PP335103 | PP326190 | – |
| <i>Dictyosporium guttulatatum</i> | MFLUCC 16-0258 | MH376717 | MH388312 | MH388345 | MH388379 |
| <i>Dictyosporium hongkongensis</i> | KMUCC 17-0268 | MH376718 | MH388313 | MH388346 | MH388380 |
| <i>Dictyosporium hughesii</i> | KT 1847 | AB807517 | AB797227 | LC014548 | AB808493 |
| <i>Dictyosporium karsti</i> | MFLU 18-2282 | – | OR134404 | OR225025 | OR140390 |
| <i>Dictyosporium krabiense</i> | MFLU 16-1890 | MH376719 | MH388314 | – | MH388381 |
| <i>Dictyosporium marinum</i> | GJ357 | MN017841 | – | – | – |
| <i>Dictyosporium meiosporum</i> | MFLUCC 10-0131 | KP710945 | KP710946 | KP710944 | – |
| <i>Dictyosporium muriformis</i> | GZCC 20-0006 | MN897834 | MN901117 | MT002304 | MT023011 |
| <i>Dictyosporium nigroapice</i> | MFLUCC 17-2053 | MH381777 | MH381762 | MH381768 | MH388821 |
| <i>Dictyosporium nigroapice</i> | BCC 3555 | – | – | DQ018085 | – |
| <i>Dictyosporium olivaceosporum</i> | KH 375 | AB807514 | AB797224 | LC014542 | AB808490 |
| <i>Dictyosporium palmae</i> | CBS-H 22129 | KX555648 | – | – | – |
| <i>Dictyosporium pandanicola</i> | MFLU 16-1886 | MH376720 | – | MH388347 | MH388382 |
| <i>Dictyosporium sexualis</i> | MFLUCC 10-0127 | KU179106 | KU179107 | KU179105 | – |
| <i>Dictyosporium sp.</i> | MFLUCC 15-0629 | MH381775 | – | MH381766 | MH388819 |
| <i>Dictyosporium stellatum</i> | CCFC 241241 | JF951177 | – | NR_154608 | – |
| <i>Dictyosporium streitzi</i> | CBS 123359 | FJ839653 | – | NR_156216 | – |
| <i>Dictyosporium tetrasporum</i> | KT 2865 | AB807519 | AB797229 | LC014551 | AB808495 |

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|---|---------------------|--------------------------|-----------------|-----------------|-----------------|
| | | LSU | SSU | ITS | <i>tef1-a</i> |
| <i>Dictyosporium thailandicum</i> | MFLUCC 13-0773 | KP716707 | – | KP716706 | – |
| <i>Dictyosporium tratense</i> | MFLUCC 17-2052 | MH381776 | MH381761 | MH381767 | MH388820 |
| <i>Dictyosporium tubulatum</i> | MFLUCC 15-0631 | MH381778 | – | MH381769 | MH388822 |
| <i>Dictyosporium tubulatum</i> | MFLUCC 17-2056 | MH381779 | – | MH381770 | – |
| <i>Dictyosporium variabilisporum</i> | MHZU 24-0284 | PP326215 | PP335105 | PP326192 | PP333112 |
| <i>Dictyosporium wuyiense</i> | CGMCC 3.18703 | – | – | KY072977 | – |
| <i>Dictyosporium zhejiangense</i> | MW-2009a | – | – | FJ456893 | – |
| <i>Digitodesmium Chiangmaiense</i> | KUN-HKAS 102163 | MK571766 | MK571775 | – | – |
| <i>Digitodesmium polybrachiatum</i> | COAD 3174 | MW879316 | MW879325 | MW879318 | – |
| <i>Digitodesmium polybrachiatum</i> | COAD 3175 | MW879317 | MW879326 | MW879319 | – |
| <i>Gregarithecium curvisporum</i> | KT 922 | AB807547 | AB797257 | AB809644 | – |
| <i>Gregarithecium curvisporum</i> | MFLUCC 13-0853 | KX364282 | KX364283 | KX364281 | – |
| <i>Immotthia atrograna</i> | ZT-Myc-64283 | – | – | MW489540 | – |
| <i>Immotthia bambusae</i> | KUN-HKAS 112012A1 | MW489450 | MW489461 | MW489455 | MW504646 |
| <i>Jalapriya inflata</i> | NOU 3855 | JQ267363 | JQ267361 | JQ267362 | – |
| <i>Jalapriya pulchra</i> | MFLUCC 15-0348 | KU179109 | KU179110 | KU179108 | – |
| <i>Neodendryphiella mali</i> | FMR 16561 | LT906657 | – | LT906655 | – |
| <i>Neodendryphiella tarraconensis</i> | GZCC 20-0002 | MN999927 | – | MN999922 | – |
| <i>Periconia igniaria</i> | CBS 379.86 | AB807566 | – | LC014585 | AB808542 |
| <i>Periconia igniaria</i> | CBS 845.96 | AB807567 | – | LC014586 | AB808543 |
| <i>Pseudocoleophoma bauhiniae</i> | MFLUCC 17-2586 | MK347953 | MK347844 | MK347736 | MK360076 |
| <i>Pseudocoleophoma calamagrostidis</i> | KT 3284 | LC014609 | LC014604 | LC014592 | LC014614 |
| <i>Pseudocoleophoma flavescens</i> | CBS 178.93 | GU238075 | GU238216 | – | – |
| <i>Pseudocoleophoma zingiberacearum</i> | NCYUCC 19-0052 | MN616753 | – | MN615939 | MN629281 |
| <i>Pseudocyclothyriella clematidis</i> | MFLUCC 17-2177 | MT214549 | – | MT310596 | MT394730 |
| <i>Pseudocyclothyriella clematidis</i> | MFLUCC 17-2177A | MT214548 | MT226667 | MT310595 | – |
| <i>Pseudodictyosporium elegans</i> | CBS 688.93 | DQ018106 | DQ018084 | DQ018099 | – |
| <i>Pseudodictyosporium wauense</i> | NBRC 30078 | DQ018105 | DQ018083 | DQ018098 | – |
| <i>Pseudodictyosporium wauense</i> | DLUCC 0801 | MF948630 | – | MF948622 | MF953165 |
| <i>Verrucocum coppinsii</i> | E00396112 | MT918766 | MT918774 | MT918782 | – |
| <i>Verrucocum spribillei</i> | SPO1154 | MT918764 | MT918772 | MT918781 | – |
| <i>Vikalpa australiensis</i> | HKUCC 8797 | – | – | DQ018092 | – |
| <i>Vikalpa grandispora</i> | KUNCC 22-12425 | OP526648 | OP526628 | OP526638 | OP542240 |
| <i>Vikalpa sphaerica</i> | CGMCC 3.20682 | OP526649 | OP526629 | OP526639 | OP542A85 |