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| *Substrate* | *OTU* | *FDR* | *CONSTAX2 Result with UNITE Database* | *BLAST Result* |
| ***Epiphyte*** | OTU\_150 | 0.003 | *Fungi sp.* | Ceramothyrium sp. |
|  | OTU\_56 | 0.003 | *Golubevia pallescens* | *Unknown* |
|  | OTU\_58 | 0.003 | Fungi sp. | *Unknown* |
|  | OTU\_108 | 0.003 | Mycosphaerellaceae sp. | Acrodontium sp. |
| ***Endophyte*** | OTU\_191 | 0.003 | *Taphrina vestergrenii* | *Unknown* |
|  | OTU\_48 | 0.01 | Phyllosticta minima | *Phyllosticta* sp. |
|  | OTU\_83 | 0.012 | *Seimatosporium* sp. | Seimatosporium sp. |
|  | OTU\_34 | 0.022 | *Rhytisma* sp. | *Rhytismataceae sp.* |
|  | OTU\_683 | 0.033 | Zygophiala tardicrescens | *Schizothyrium* sp. |
| ***Litter*** | OTU\_23 | 0.003 | *Colletotrichum* sp. | *Colletotrichum* sp. |
|  | OTU\_32 | 0.003 | *Xylariales sp.* | *Xylariales sp.* |
|  | OTU\_40 | 0.003 | Codinaea lambertiae | *Codinaea lambertiae* |
|  | OTU\_52 | 0.003 | *Ascomycota sp.* | *Coleophoma* sp. |
|  | OTU\_112 | 0.003 | *Lophiostoma* sp. | *Amorocoelophoma* sp. |
| ***Soil*** | OTU\_19 | 0.003 | *Saitozyma podzolica* | *Saitozyma* sp. |
|  | OTU\_41 | 0.003 | *Archaeorhizomyces* sp. | *Archaeorhizomyces* sp. |
|  | OTU\_85 | 0.003 | Solicoccozyma terricola | *Solicocozyma terricola* |
|  | OTU\_93 | 0.003 | Trichoderma hamatum | *Trichoderma* sp. |
|  | OTU\_785 | 0.003 | Pseudogymnoascus roseus | *Pseudogymnoascus* sp. |
| ***Epiphyte + Endophyte*** | OTU\_189 | 0.003 | Ramularia nyssicola | Ramularia nyssicola |
|  | OTU\_479 | 0.003 | *Ramularia* sp. | *Ramularia* sp. |
| OTU\_251 | 0.007 | Ascomycota sp. | *Ramularia* sp. |
|  | OTU\_3326 | 0.009 | *Ramularia* sp. | Ramularia sp. |
|  | OTU\_2 | 0.012 | *Ampelomyces* sp. | *Unknown* |
| ***Epiphyte + Litter*** | OTU\_66 | 0.003 | *Bulleribasidium* sp. | Bulleribasidium sp. |
|  | OTU\_68 | 0.003 | *Epicoccum* sp. | *Epicoccum* sp. |
| OTU\_82 | 0.003 | Capnodiales sp. | *Dothideomycetes sp.* |
|  | OTU\_165 | 0.003 | Dioszegia athyri | *Dioszegia* sp. |
|  | OTU\_226 | 0.003 | Agaricales sp. | Unknown |
| ***Endophyte + Litter*** | OTU\_87 | 0.033 | *Ascomycota sp.* | *Paraconiothyrium* sp. |
|  | OTU\_1 | 0.033 | Glomerellaceae sp. | *Colletotrichum* sp. |
| OTU\_127 | 0.035 | Diaporthales sp. | *Diaporthe* sp. |
| ***Litter + Soil*** | OTU\_380 | 0.003 | Ascomycota sp. | Helotiales sp. |
|  | OTU\_282 | 0.013 | *Striatibotrys eucylindrospora* | *Striatibotrys* sp. |
|  | OTU\_193 | 0.02 | *Cylindrocladium peruvianum* | *Cylindrocladiella* sp. |
|  | OTU\_121 | 0.023 | *Chalara* sp. | Leotiomycetes sp. |
| ***Epiphyte + Endophyte + Litter*** | OTU\_4 | 0.003 | *Ramularia* sp. | *Ramularia* sp. |
|  | OTU\_5 | 0.003 | *Ramularia pratensis* | *Ramularia* sp. |
| OTU\_8 | 0.003 | Dothideomycetes sp. | *Cladosporium* sp. |
| OTU\_10 | 0.003 | Didymellaceae sp. | Didymellaceae sp. |
|  | OTU\_11 | 0.003 | Pleosporales sp. | *Alternaria* sp. |
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**Table 2. Substrate and cross-substrate indicator OTUs.** Indicator OTUs were determined using the multipatt function in R package “indicspecies”. Substrate groupings with no significant indicator OTUs are not displayed, and only those with a false discovery rate (FDR) < 0.05 are included (maximum of 5 each). Sequence analysis against the UNITE and Fungal RefSeq ITS nucleotide databases determined the closest known taxa.