**Table 2. Substrate and cross-substrate indicator OTUs.** Indicator OTUs were determined using the multipatt function the indicspecies package. 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). Classification against the UNITE with and Fungal RefSeq ITS databases with CONSTAX2 and BLASTn determined the closest known taxa.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Substrate** | **OTU** | **FDR** | **CONSTAX2 Result** | **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. |
| OTU\_191 | 0.003 | *Taphrina vestergrenii* | Unknown |
| **Endophyte** | 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. |
| OTU\_1104 | 0.034 | *Hypoxylon carneum* | Unknown |
| **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. |