**Table S2: Taxonomy of cultured viaphyte genera from this study**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Phylum** | **Class** | **Order** | **Family** | **Genus** | **Total Isolates** |
| Ascomycota | Eurotiomycestes | Eurotiales | Trichomaceae | *Penicillium*  | 179 |
| Ascomycota | Sordariomycetes | Hypocreales | Hypoceaceae | *Trichoderma*  | 89 |
| Ascomycota | Eurotiomycestes | Eurotiales | Trichocomaceae | *Byssochlamys* | 75 |
| Ascomycota | Sordariomycetes | Amphisphaeriales | Pestalotiopsidaceae | *Neopestalotiopsis*  | 44 |
| Basidiomycota | Agaricomycetes | Polyporales | Phanerochaetaceae | *Phanerochaete*  | 14 |
| Ascomycota | Pyrenomycetes | Diaporthales | Diaporthaceae | *Diaporthe*  | 10 |
| Ascomycota | Sordariomycetes | Hypocreales | Nectriaceae | *Fusarium*  | 9 |
| Ascomycota | Eurotiomycestes | Eurotiales | Aspergillaceae | *Aspergillus*  | 6 |
| Ascomycota | Dothideomycetes | Pleosporales | Pleosporaceae | *Curvularia*  | 6 |
| Basidiomycota | Agaricomycetes | Russulales | Peniophoraceae | *Peniophora*  | 6 |
| Ascomycota | Dothideomycetes | Pleosporales | Didymosphaeriaceaee | *Alloconiothyrium*  | 5 |
| Ascomycota | Dothideomycetes | Pleosporales | Didymosphaeriaceaee | *Kalmusia*  | 5 |
| Basidiomycota | Agaricomycetes | Polyporales | Meruliaceae | *Phlebia*  | 4 |
| Ascomycota | Eurotiomycestes | Chaetothyriales | Herpotrichiellaceae | *Cladophialophora*  | 3 |
| Ascomycota | Sordariomycetes | Xylariales | Xylariaceae | *Xylaria*  | 3 |
| Ascomycota | Sordariomycetes | Glomerellales | Glomerellaceae | *Colletotrichum*  | 2 |
| Ascomycota | Dothideomycetes | Pleosporales | Lophiostomataceae | *Lophiostoma*  | 2 |
| Ascomycota | Dothideomycetes | — | — | — | 2 |
| Basidiomycota | Agaricomycetes | Polyporales | Phanerochaetaceae | *Phlebiopsis*  | 2 |
| Basidiomycota | Agaricomycetes | Agaricales | Psathyrellaceae | *Coprinellus*  | 1 |
| Ascomycota | Sordariomycetes | Hypocreales | Nectriaceae | — | 1 |
| Ascomycota | Sordariomycetes | Xylariales | Hypoxylaceae | *Hypoxylon*  | 1 |
| Ascomycota | Sordariomycetes | Xylariales | Xylariaceae | *Muscodor*  | 1 |
| Basidiomycota | Agaricomycetes | Polyporales | Meruliaceae | *Mycoacia*  | 1 |
| Ascomycota | Sordariomycetes | Amphisphaeriales | Amphisphaeiaceae | *Pestalotiopsis*  | 1 |