**Table S3** Most abundant fungal OTUs for each taxonomic ranks (five most abundant where available) including total OTU counts, percentages of OTUs these groups represent, total sequence counts and percentages of sequences that these groups represent. Only defined taxonomic identifications were included here.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **OTU (#)** | **OTU (%)** | **Sequences (#)** | **Sequences (%)** |
| **Phylum** | | | | |
| Ascomycota | 359 | 60.34 | 1,890,522 | 86.47 |
| Basidiomycota | 224 | 37.65 | 293,537 | 13.42 |
| Unclassified | 12 | 2.01 | 2,093 | 0.09 |
| **Class** | | | | |
| Dothideomycetes | 219 | 36.81 | 1,663,213 | 76.07 |
| Tremellomycetes | 155 | 26.05 | 251,488 | 11.50 |
| Sordariomycetes | 46 | 7.73 | 98,355 | 4.49 |
| Agariocomycetes | 34 | 5.71 | 5,890 | 0.26 |
| Eurotiomycetes | 31 | 5.21 | 53,307 | 2.43 |
| **Order** | | | | |
| Tremellales | 147 | 24.70 | 187,018 | 8.55 |
| Pleosporales | 104 | 17.47 | 868,448 | 39.72 |
| Capnodiales | 90 | 15.12 | 571,990 | 26.16 |
| Chaetothyriales | 31 | 52.10 | 53,307 | 2.43 |
| Xylariales | 13 | 2.18 | 6,299 | 0.28 |
| **Family** | | | | |
| Montagnulaceae | 16 | 2.68 | 363,161 | 16.61 |
| Mycosphaerellacea | 54 | 9.07 | 343,929 | 15.73 |
| Phaeosphaeriaceae | 26 | 4.37 | 143,327 | 6.55 |
| Teratosphaeriaceae | 15 | 2.52 | 10,003 | 0.45 |
| Diaporthaceae | 10 | 1.68 | 62,233 | 2.84 |
| **Genus** | | | | |
| *Hannaella* | 53 | 8.90 | 47,385 | 2.16 |
| *Cryptococcus* | 20 | 3.36 | 113,729 | 5.20 |
| *Dioszegia* | 14 | 2.35 | 10,742 | 0.49 |
| *Uwebraunia* | 10 | 1.68 | 84,130 | 3.84 |
| *Aureobasidium* | 9 | 1.51 | 205,774 | 9.41 |
| **Species (SH)** | | | | |
| *Hannaella oryzae* | 21 | 3.05 | 19,300 | 0.88 |
| Tremellales sp. | 11 | 4.03 | 40,572 | 1.85 |
| *Uwebraunia musa* | 10 | 1.68 | 84,130 | 3.84 |
| *Aerobasidium pullulans* | 8 | 1.34 | 204,981 | 9.37 |
| *Dissoconium proteae* | 7 | 1.17 | 196,506 | 8.98 |