**Table S2.** Complete list of the 44 fungi enriched in high relative humidity conditions and the 3 fungi enriched in low relative humidity conditions.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Fungi (HIGH Relative Humidity)** | **LDA Score** |  | **Fungi (Low Relative Humidity)** | **LDA Score** |
| Cyberlindnera jadinii | 4.60 |  | Epicoccum nigrum | -4.57 |
| Minimidochium sp | 3.80 |  | Pseudeurotium bakeri | -3.03 |
| Candida albicans | 3.29 |  | Mastigobasidium intermedium | -2.56 |
| Aureobasidium pullulans | 3.28 |  |  |  |
| Exophiala placitae | 3.19 |  |  |  |
| Exophiala xenobiotica | 3.13 |  |  |  |
| Aspergillus sp | 3.10 |  |  |  |
| Wallemia sp | 3.09 |  |  |  |
| Exophiala sp | 3.01 |  |  |  |
| Penicillium sp | 2.95 |  |  |  |
| Nigrospora sphaerica | 2.95 |  |  |  |
| Peniophora incarnata | 2.92 |  |  |  |
| Malassezia restricta | 2.90 |  |  |  |
| Diplodia pinea | 2.85 |  |  |  |
| Pyrenochaetaunguis hominis | 2.84 |  |  |  |
| Gibberella sp | 2.79 |  |  |  |
| Sporobolomyces coprosmae | 2.76 |  |  |  |
| Cylindrium sp | 2.71 |  |  |  |
| Botryotinia fuckeliana | 2.70 |  |  |  |
| Sistotremastrum sp | 2.67 |  |  |  |
| Ochrocladosporium elatum | 2.65 |  |  |  |
| Aureobasidium sp | 2.63 |  |  |  |
| Ceratobasidium sp | 2.63 |  |  |  |
| Acremonium sp Ascomycota | 2.59 |  |  |  |
| Hydropisphaera erubescens | 2.59 |  |  |  |
| Hypocrea lixii | 2.58 |  |  |  |
| Melampsora medusae | 2.57 |  |  |  |
| Fusarium larvarum | 2.56 |  |  |  |
| Erythrobasidium clade | 2.56 |  |  |  |
| Rhizosphaera kalkhoffii | 2.55 |  |  |  |
| Microsphaeropsis proteae | 2.54 |  |  |  |
| Fusarium lateritium | 2.53 |  |  |  |
| Saccharomyces cerevisiae | 2.50 |  |  |  |
| Microdochium bolleyi | 2.50 |  |  |  |
| Aspergillus sydowii | 2.49 |  |  |  |
| Athelia sp | 2.46 |  |  |  |
| Humicola grisea | 2.42 |  |  |  |
| Capnobotryella sp | 2.42 |  |  |  |
| Aspergillus ochraceus | 2.41 |  |  |  |
| Phaeotheca fissurella | 2.37 |  |  |  |
| Coprinellus radians | 2.34 |  |  |  |
| Ustilago spermophora | 2.32 |  |  |  |
| Irpex sp | 2.31 |  |  |  |
| Pseudozyma hubeiensis | 2.31 |  |  |  |