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| **Supplemental Table 3. Summary of statistical analyses for OTU abundance and functional assays** |
| **Statistical test** | **Results** |
| **Linear regression comparing abundance of OTU from leaf litter vs. abundance of the same OTU in living leaves** | log transformation: R2 = 0.03, F1,43 = 1.41, P = 0.2415; lack-of-fit F-test F12,31 = 2.43, P = 0.0234 |
| **Mantel test for correlation between differences in fungal growth on carbon sources vs. ITS-partial LSU rDNA genetic distances** | cellulose: r = 0.060, P = 0.166; lignin: r = 0.096, P = 0.097; pectin: r = 0.122, P = 0.032 |
| **Test for differences in detectable cellulolytic activity vs. no cellulolytic activity as a function of leaf type of origin** | Fisher’s exact test for endophytes, DLF, and LLF; P = 0.5765 |
| **Non-parametric test for differences in cellulolytic activity as a function of fungal class (Sordariomycetes, Leotiomycetes, Dothideomyctes, Pezizomycetes)** | Wilcoxon rank sum test: χ23= 4.67 P = 0.0071 |
| **Non-parametric test for differences in cellulolytic activity as a function of leaf type of origin** | Sordariomycetes, Wilcoxon rank sum: χ21= 0.0014 P = 0.9704Dothideomycetes, Wilcoxon rank sum: χ2= 5.72 P = 0.0168 |
| **Non-parametric test for differences in growth on different carbon sources activity as a function of leaf type of origin** | Sordariomycetes, Wilcoxon rank sum: cellulose: χ2 = 0.046, P = 0.8311; lignin: χ2 = 2.91, P = 0.0879; pectin: χ2 = 1.47, P = 0.2258Dothideomycetes, Wilcoxon rank sum: cellulose: χ2 = 7.38, P = 0.0066; lignin: χ2 = 9.00, P = 0.0027; pectin: χ2 = 11.39, P = 0.0007 |
| **Mantel test for correlation between differences in cellulolytic activity** **vs. ITS-partial LSU rDNA genetic distances** | r = -0.015, P = 0.178 |