|  |  |  |  |
| --- | --- | --- | --- |
| All-factor PERMANOVA test statistics | |  |  |
| Factor | R2 | F | Pr(>F) |
| Substrate | 0.3079 | 19.62 | 0.001 |
| Host species | 0.0751 | 14.37 | 0.001 |
| Site | 0.0864 | 4.13 | 0.001 |
| Substrate x Host species | 0.1057 | 6.74 | 0.001 |
| Substrate x Site | 0.2063 | 3.29 | 0.001 |
| Host species x Site | 0.0551 | 2.63 | 0.002 |
| Substrate x Host species x Site | 0.1216 | 2.32 | 0.001 |
| Residual | 0.0418 |  |  |
| Total | 1 |  |  |
|  |  |  |  |
| Pairwise PERMANOVA comparisons by substrate | | | |
|  | **Endophytes** | **Epiphytes** | **Litter** |
| Epiphytes | 0.0036 | - | - |
| Litter | 0.004 | 0.0015 | - |
| Soil | 0.0015 | 0.0015 | 0.0015 |

**Table 1. PERMANOVA table of substrate, host species, site, and interactions effects on fungal communities.** Included are both the full model comparison and *p*-values from permuted pairwise tests.