|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Shannon Index |  |  |  |  |  |
| Factor | Df | Sum Sq | Mean Sq | F value | Pr(>F) |
| Substrate | 3 | 7.055687768 | 2.351895923 | 7.674778805 | 0.000413258 |
| Host species | 1 | 1.523488881 | 1.523488881 | 4.971495576 | 0.031920704 |
| Site | 4 | 2.463250733 | 0.615812683 | 2.009538808 | 0.113276193 |
| Residuals | 37 | 11.33845696 | 0.306444783 |  |  |
|  | |  |  |  |  |
| Inverse Simpson Index | |  |  |  |  |
| Factor | Df | Sum Sq | Mean Sq | F value | Pr(>F) |
| Substrate | 3 | 670.3535712 | 223.4511904 | 4.731573082 | 0.006820544 |
| Host species | 1 | 230.8735612 | 230.8735612 | 4.888741589 | 0.033292266 |
| Site | 4 | 212.1614829 | 53.04037073 | 1.123128456 | 0.360457341 |
| Residuals | 37 | 1747.345735 | 47.2255604 |  |  |

**Supplementary Table 1. ANOVA tables of substrate, host species, and site effects of within-sample diversity.** Diversity was estimated for Shannon and Inverse Simpson indices using diversity function in vegan.