**Supplementary Table 3.** Structure of endophyte communities as a function of hosts and geographic regions in Arizona. Geographic regions are defined as four broad areas of the state: N, north; C, central; SE, southeast; SW, southwest.

1. PERMANOVA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Factors | Groups | R2(Jaccard) | P value+ | R2(Morisita-Horn) | P value+ |
| Host | Lichen and moss vs. vascular plant |  0.0208 | **0.001\*** | 0.0391 | **0.001\*** |
| Area | N, C, SE, SW |  0.0282 | **0.001\*** | 0.0404 | **0.001\*** |

1. ANOSIM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Factors | Groups | R(Jaccard) | P value+ | R(Morisita-Horn) | P value+ |
| Host | Lichen and moss vs. vascular plant |  0.0611 | **0.019\*** | 0.0632 | **0.018\*** |
| Area | N, C, SE, SW |  0.0955 | **0.002\*** | 0.0939 | **0.002\*** |

+P value is adjusted by the BH method in R to control the false discovery rate.