**Supplementary Table 5.** The structure of endophyte communities in angiosperms and gymnosperms as a function of host family, biotic zones, and elevation, as evaluated by ANOSIM.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Host group | Biotic zone | Factors | R  (Jaccard) | P value+ | R  (Morisita-Horn) | P value+ |
| Angiosperms | Petran | Family | 0.9564 | 0.004\* | 1 | 0.003\* |
|  |  | Elevation | 0.3885 | 0.050 | 0.3769 | 0.045\* |
|  |  | **Family x Elevation** | **0.8903** | **0.004\*** | **0.9097** | **0.003\*** |
|  | Madrean | Family | 0.5863 | 0.004\* | 0.6094 | 0.003\* |
|  |  | Elevation | 0.1992 | 0.007\* | 0.2018 | 0.010\* |
|  |  | **Family x Elevation** | **0.6901** | **0.004\*** | **0.7146** | **0.003\*** |
|  | Neotropical | Family | 0.1632 | 0.010\* | 0.3383 | 0.003\* |
|  |  | Elevation | -0.1665 | 1.000 | -0.1861 | 1.000 |
|  |  | **Family x Elevation** | **0.1392** | **0.017\*** | **0.1487** | **0.012\*** |
| Gymnosperms | Petran | Family | 0.3733 | 0.020\* | 0.4347 | 0.012\* |
|  |  | Elevation | NA | NA | NA | NA |
|  |  | **Family x Elevation** | NA | 0.020\* | NA | 0.012\* |
|  | Madrean | Family | 0.4448 | 0.009\* | 0.4325 | 0.010\* |
|  |  | Elevation | 0.3186 | 0.055 | 0.3027 | 0.061 |
|  |  | **Family x Elevation** | **0.3701** | **0.015\*** | **0.361** | **0.012\*** |
|  | Neotropical | Family | 0.2844 | 0.082 | 0.4281 | 0.042\* |
|  |  | Elevation | 0.4506 | 0.066 | 0.5154 | 0.043\* |
|  |  | **Family x Elevation** | **0.4692** | **0.026\*** | **0.5654** | **0.017\*** |

+P value is adjusted by the BH method in R, which controls the false discovery rate.