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| **Supplemental Table 1. Similarity (1- variably weighted Odum dissimilarity, DwOdum) between fungal communities in different leaf types for five N. American sites as a function of different alpha weighting factors. At α = 1, DwOdum is equal to DOdum; when α <1, the influence of abundant taxa will be down-weighted; and when α >1, the influence of low abundance taxa will be down-weighted. Low sample size of endophytes in AKE precluded comparisons of endophyte and DLF/LLF.**  |
|  |  | **alpha (0)** | **alpha (1)** | **alpha (2)** | **alpha (3)** | **alpha (4)** |
|  |  | **1-DwOdum** | **p-value** | **1-DwOdum** | **p-value** | **1-DwOdum** | **p-value** | **1-DwOdum** | **p-value** | **1-DwOdum** | **p-value** |
| **Endo vs DLF** | **AZC** | **0.13** | <0.001 | **0.36** | <0.001 | **0.45** | <0.001 | **0.47** | <0.001 | **0.48** | <0.001 |
| **NCH** | **0.09** | <0.001 | **0.27** | <0.001 | **0.43** | <0.001 | **0.53** | <0.001 | **0.59** | <0.001 |
| **FLA** | **0.15** | <0.001 | **0.30** | <0.001 | **0.36** | <0.001 | **0.35** | <0.001 | **0.32** | <0.001 |
| **AKE** | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **AKN** | **0.13** | <0.001 | **0.27** | <0.001 | **0.23** | <0.001 | **0.15** | <0.001 | **0.10** | <0.001 |
|  |  |   |   |  |  |   |   |  |  |   |   |
| **Endo vs. LLF** | **AZC** | **0.16** | <0.001 | **0.30** | <0.001 | **0.26** | <0.001 | **0.16** | <0.001 | **0.09** | <0.001 |
| **NCH** | **0.08** | <0.001 | **0.18** | <0.001 | **0.22** | <0.001 | **0.23** | <0.001 | **0.24** | <0.001 |
| **FLA** | **0.12** | <0.001 | **0.25** | <0.001 | **0.24** | <0.001 | **0.18** | <0.001 | **0.15** | <0.001 |
| **AKE** | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **AKN** | **0.16** | <0.001 | **0.26** | <0.001 | **0.14** | <0.001 | **0.05** | <0.001 | **0.02** | <0.001 |
|  |  |   |   |  |  |   |   |  |  |   |   |
| **DLF vs. LLF** | **AZC** | **0.24** | <0.001 | **0.40** | <0.001 | **0.45** | <0.001 | **0.47** | <0.001 | **0.49** | <0.001 |
| **NCH** | **0.19** | <0.001 | **0.28** | <0.001 | **0.37** | <0.001 | **0.46** | <0.001 | **0.51** | <0.001 |
| **FLA** | **0.28** | 0.003 | **0.53** | <0.001 | **0.67** | <0.001 | **0.68** | <0.001 | **0.68** | <0.001 |
| **AKE** | **0.22** | 0.024 | **0.41** | 0.003 | 0.62 | 0.097 | 0.76 | 0.401 | 0.83 | 0.494 |
| **AKN** | **0.21** | 0.034 | 0.46 | 0.116 | 0.60 | 0.189 | 0.66 | 0.251 | 0.68 | 0.286 |