Permanova tests

1. Month not considered strata

adonis2(formula = unifrac\_dist ~ Species\_50/Site\_50 + Month\_50, data = metadata, permutations = 999)

Permutation test for adonis under reduced model

Terms added sequentially (first to last)

Permutation: free

Number of permutations: 999

adonis2(formula = unifrac\_dist ~ Species\_50/Site\_50 + Month\_50, data = metadata, permutations = 999)

Df SumOfSqs R2 F Pr(>F)

Species\_50 1 1.0976 0.06464 4.1162 0.001 \*\*\*

Month\_50 7 2.1847 0.12867 1.1704 0.148

Species\_50:Site\_50 9 2.2308 0.13139 0.9296 0.623

Residual 43 11.4658 0.67530

Total 60 16.9789 1.00000

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

1. Month considered as a block (strata)

adonis2(formula = unifrac\_dist ~ Species\_50/Site\_50, data = metadata, permutations = 999, strata = Month\_50)

Permutation test for adonis under reduced model

Terms added sequentially (first to last)

Blocks: strata

Permutation: free

Number of permutations: 999

adonis2(formula = unifrac\_dist ~ Species\_50/Site\_50, data = metadata, permutations = 999, strata = Month\_50)

Df SumOfSqs R2 F Pr(>F)

Species\_50 1 1.0976 0.06464 4.0868 0.347

Species\_50:Site\_50 9 2.4530 0.14447 1.0148 0.450

Residual 50 13.4283 0.79088

Total 60 16.9789 1.00000