Supplementary Tables

Table S1: PERMANOVA OUTPUTS

adonis2(formula = dist\_w ~ Site \* Treatment \* Timepoint, data = sd\_adonis, permutations = 10000)

Df SumOfSqs R2 F Pr(>F)

Site 5 0.54622 0.31058 8.1498 9.999e-05 \*\*\*

Treatment 2 0.02938 0.01671 1.0960 0.3394

Timepoint 1 0.05705 0.03244 4.2560 0.0207 \*

Site:Treatment 10 0.31006 0.17630 2.3131 0.0050 \*\*

Site:Timepoint 5 0.22812 0.12971 3.4037 0.0015 \*\*

Treatment:Timepoint 2 0.02040 0.01160 0.7611 0.5410

Site:Treatment:Timepoint 10 0.08489 0.04827 0.6333 0.8866

Residual 36 0.48256 0.27439

Total 71 1.75868 1.00000

-------

adonis2(formula = dist\_uw ~ Site \* Treatment \* Timepoint, data = sd\_adonis, permutations = 10000)

Df SumOfSqs R2 F Pr(>F)

Site 5 2.2367 0.15888 2.7682 9.999e-05 \*\*\*

Treatment 2 0.4101 0.02913 1.2690 0.05569 .

Timepoint 1 0.4782 0.03397 2.9590 9.999e-05 \*\*\*

Site:Treatment 10 1.7974 0.12768 1.1122 0.08309 .

Site:Timepoint 5 1.1986 0.08514 1.4834 0.00050 \*\*\*

Treatment:Timepoint 2 0.3791 0.02693 1.1731 0.12949

Site:Treatment:Timepoint 10 1.7600 0.12502 1.0891 0.12899

Residual 36 5.8178 0.41325

Total 71 14.0780 1.00000

Strata = Site

adonis2(formula = dist\_w ~ Site \* Treatment \* Timepoint, data = sd\_adonis, permutations = 10000, strata = sd\_adonis$Site)

Df SumOfSqs R2 F Pr(>F)

Site 5 0.54622 0.31058 8.1498 0.016998 \*

Treatment 2 0.02938 0.01671 1.0960 0.340366

Timepoint 1 0.05705 0.03244 4.2560 0.021998 \*

Site:Treatment 10 0.31006 0.17630 2.3131 0.010099 \*

Site:Timepoint 5 0.22812 0.12971 3.4037 0.005799 \*\*

Treatment:Timepoint 2 0.02040 0.01160 0.7611 0.549445

Site:Treatment:Timepoint 10 0.08489 0.04827 0.6333 0.853415

Residual 36 0.48256 0.27439

Total 71 1.75868 1.00000

--------

adonis2(formula = dist\_uw ~ Site \* Treatment \* Timepoint, data = sd\_adonis, permutations = 10000, strata = sd\_adonis$Site)

Df SumOfSqs R2 F Pr(>F)

Site 5 2.2367 0.15888 2.7682 9.999e-05 \*\*\*

Treatment 2 0.4101 0.02913 1.2690 0.03460 \*

Timepoint 1 0.4782 0.03397 2.9590 9.999e-05 \*\*\*

Site:Treatment 10 1.7974 0.12768 1.1122 0.06999 .

Site:Timepoint 5 1.1986 0.08514 1.4834 9.999e-05 \*\*\*

Treatment:Timepoint 2 0.3791 0.02693 1.1731 0.10509

Site:Treatment:Timepoint 10 1.7600 0.12502 1.0891 0.11729

Residual 36 5.8178 0.41325

Total 71 14.0780 1.00000

Sampling time 2 (b)

adonis2(formula = dist\_wb ~ Site \* Treatment, data = sd\_adonis, permutations = 10000, strata = sd\_adonis$Site)

Df SumOfSqs R2 F Pr(>F)

Site 5 0.41936 0.45516 6.0217 0.2341

Treatment 2 0.03052 0.03313 1.0957 0.3585

Site:Treatment 10 0.22076 0.23960 1.5850 0.2066

Residual 18 0.25071 0.27211

Total 35 0.92135 1.00000

--------

adonis2(formula = dist\_uwb ~ Site \* Treatment, data = sd\_adonis, permutations = 10000, strata = sd\_adonis$Site)

Df SumOfSqs R2 F Pr(>F)

Site 5 1.6070 0.21675 1.7565 0.04230 \*

Treatment 2 0.4292 0.05789 1.1728 0.11459

Site:Treatment 10 2.0843 0.28113 1.1391 0.05669 .

Residual 18 3.2936 0.44423

Total 35 7.4142 1.00000