Supplementary Tables

Table S1: PERMANOVA OUTPUTS

**Non-stratified**

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

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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

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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

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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

**Core Genera**

adonis2(formula = dist\_core\_w\_genus ~ Site \* Treatment \* Timepoint, data = sd\_adonis, permutations = 1000, strata = sd\_adonis$Site)

Df SumOfSqs R2 F Pr(>F)

Site 5 2.5240 0.35645 8.8247 0.07393 .

Treatment 2 0.0930 0.01314 0.8132 0.52647

Timepoint 1 0.0949 0.01340 1.6583 0.15385

Site:Treatment 10 1.0902 0.15397 1.9059 0.05295 .

Site:Timepoint 5 0.9491 0.13404 3.3185 0.00999 \*\*

Treatment:Timepoint 2 0.0995 0.01405 0.8697 0.44356

Site:Treatment:Timepoint 9 0.2853 0.04029 0.5541 0.88711

Residual 34 1.9449 0.27467

Total 68 7.0809 1.00000

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adonis2(formula = dist\_core\_uw\_genus ~ Site \* Treatment \* Timepoint, data = sd\_adonis, permutations = 1000, strata = sd\_adonis$Site)

Df SumOfSqs R2 F Pr(>F)

Site 5 0.15030 0.20629 4.7333 0.002997 \*\*

Treatment 2 0.00296 0.00407 0.2333 0.911089

Timepoint 1 0.04353 0.05974 6.8538 0.001998 \*\*

Site:Treatment 10 0.12177 0.16713 1.9173 0.013986 \*

Site:Timepoint 5 0.11621 0.15949 3.6595 0.000999 \*\*\*

Treatment:Timepoint 2 0.01451 0.01991 1.1420 0.367632

Site:Treatment:Timepoint 9 0.06339 0.08701 1.1091 0.357642

Residual 34 0.21593 0.29637

Total 68 0.72860 1.00000

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