**Supplemental Table 8.** Post-hoc permutational multivariate analysis of variance (PERMANOVA) table for pairwise beta diversity comparisons among microbial communities between individual compartments (seawater, coral mucus and coral tissue), and individual months (May, July, September and December). Significant results (*p*(perm) <0.05) are highlighted in bold.

**Overall**

|  |  |  |  |
| --- | --- | --- | --- |
| Source of Variation  Interactions | *df* | F value | *p(*perm) |
| Tissue vs. Mucus | 1 | 18.709 | **0.003** |
| Tissue vs. Seawater | 1 | 14.378 | **0.003** |
| Mucus vs. Seawater | 1 | 3.458 | **0.024** |
| Apr vs. Jul | 1 | 2.952 | 0.090 |
| Apr vs. Sep | 1 | 2.540 | 0.138 |
| Apr vs. Dec | 1 | 4.615 | **0.006** |
| Jul vs. Sep | 1 | 4.508 | **0.006** |
| Jul vs. Dec | 1 | 5.781 | **0.012** |
| Sep vs. Dec | 1 | 2.035 | 0.390 |

**Tissue**

|  |  |  |  |
| --- | --- | --- | --- |
| Source of Variation  Interactions | *df* | Pseudo-*F* | *p(*perm) |
| Apr vs. Jul | 1 | 1.153 | 1.000 |
| Apr vs. Sep | 1 | 0.577 | 1.000 |
| Apr vs. Dec | 1 | 2.598 | 0.443 |
| Jul vs. Sep | 1 | 2.103 | 0.527 |
| Jul vs. Dec | 1 | 1.272 | 1.000 |
| Sep vs. Dec | 1 | 3.223 | 0.108 |

**Mucus**

|  |  |  |  |
| --- | --- | --- | --- |
| Source of Variation  Interactions | *df* | Pseudo-*F* | *p(*perm) |
| Apr vs. Jul | 1 | 11.594 | **0.006** |
| Apr vs. Sep | 1 | 3.299 | **0.006** |
| Apr vs. Dec | 1 | 6.010 | **0.006** |
| Jul vs. Sep | 1 | 9.608 | **0.006** |
| Jul vs. Dec | 1 | 16.631 | **0.006** |
| Sep vs. Dec | 1 | 0.822 | 1.000 |

**Seawater**

|  |  |  |  |
| --- | --- | --- | --- |
| Source of Variation  Interactions | *df* | F value | *p(*perm) |
| Apr vs. Jul | 1 | 1.379 | 1.000 |
| Apr vs. Sep | 1 | 1.715 | 1.000 |
| Apr vs. Dec | 1 | 2.557 | 0.360 |
| Jul vs. Sep | 1 | 3.017 | 0.108 |
| Jul vs. Dec | 1 | 2.881 | 0.114 |
| Sep vs. Dec | 1 | 8.461 | **0.018** |