**Supplemental Table 3.** Microbial evenness Shannon diversity comparisons among samples from distinct coral compartments (tissue, mucus and seawater), month (April, July, September and December) and zone (in versus out). Evenness comparisons for overall, tissue, and mucus compartments were made using a Kruskal-Wallis Chi2 test. Evenness comparisons for seawater were made using an analysis of variance (ANOVA), as evenness values were normally distributed for seawater. Significant results (*p*(perm) <0.05) are highlighted in bold.

**Overall**

|  |  |  |  |
| --- | --- | --- | --- |
| Source of VariationInteractions | *df* | X2 | *p(*perm) |
| Compartment | 2 | 64.665 | **< 0.001** |
| Zone | 1 | 0.282 | 0.596 |
| Month | 3 | 2.012 | 0.570 |
| Zone:Month | 7 | 4.000 | 0.780 |
| Compartment:Zone | 5 | 65.649 | **< 0.001** |
| Compartment:Month | 11 | 76.174 | **< 0.001** |
| Compartment:Zone:Month  | 23 | 84.665 | **< 0.001** |

**Tissue**

|  |  |  |  |
| --- | --- | --- | --- |
| Source of VariationInteractions | *df* | X2 | *p(*perm) |
| Zone | 1 | 0.004 | 0.949 |
| Month | 3 | 6.768 | 0.080 |
| Zone:Month | 7 | 15.138 | **0.034** |

**Mucus**

|  |  |  |  |
| --- | --- | --- | --- |
| Source of VariationInteractions | *df* | X2 | *p(*perm) |
| Zone | 1 | 0.005 | 0.946 |
| Month | 3 | 11.970 | **0.008** |
| Zone:Month | 7 | 15.385 | 0.314 |

**Seawater**

|  |  |  |  |
| --- | --- | --- | --- |
| Source of VariationInteractions | *df* | F value | *p(*perm) |
| Zone | 1 | 2.362 | 0.139 |
| Month | 1 | 0.040 | 0.844 |
| Zone:Month | 7 | 0.671 | 0.694 |