**Supplemental Table 2.** Shannon diversity comparisons among samples from distinct coral compartments (tissue, mucus and seawater), month (April, July, September and December) and zone (in versus out). Diversity comparisons for overall, tissue, and mucus compartments were made using a Kruskal-Wallis Chi2 test. Because seawater diversity was normally distributed an analysis of variance (ANOVA) was used for seawater comparisons. Significant results (*p*(perm) <0.05) are highlighted in bold.

**Overall**

|  |  |  |  |
| --- | --- | --- | --- |
| Source of VariationInteractions | *df* | X2 | *p(*perm) |
| Compartment | 2 | 63.138 | **< 0.001** |
| Zone | 1 | 1.0288 | 0.310 |
| Month | 3 | 7.6118 | 0.055 |
| Zone:Month | 7 | 9.2215 | 0.237 |
| Compartment:Zone | 5 | 64.776 | **< 0.001** |
| Compartment:Month | 11 | 73.897 | **< 0.001** |
| Compartment:Zone:Month  | 23 | 86.204 | **< 0.001** |

**Tissue**

|  |  |  |  |
| --- | --- | --- | --- |
| Source of VariationInteractions | *df* | X2 | *p(*perm) |
| Zone | 1 | 0.018247 | 0.893 |
| Month | 3 | 6.1154 | 0.106 |
| Zone:Month | 7 | 13.53 | 0.060 |

**Mucus**

|  |  |  |  |
| --- | --- | --- | --- |
| Source of VariationInteractions | *df* | X2 | *p(*perm) |
| Zone | 1 | 1.2883 | 0.256 |
| Month | 3 | 8.567 | **0.036** |
| Zone:Month | 7 | 14.507 | **0.043** |

**Seawater**

|  |  |  |  |
| --- | --- | --- | --- |
| Source of VariationInteractions | *df* | F value | *p(*perm) |
| Zone | 1 | 0.087 | 0.771 |
| Month | 1 | 2.967 | 0.100 |
| Zone:Month | 1 | 0.970 | 0.337 |