**Supporting Information**

**Coral physiology and microbiome dynamics under combined warming and ocean acidification**

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**S4 Table.** **Kruskal-Wallis p-values for each physiological variable.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Coral species** | **calc** | **lipid** | **h\_protein** | **h\_carbs** | **biomass** | **PR** | **FvFm** | **cells** | **chla** | **a\_protein** | **a\_carbs** | **POC** |
| *A. millepora* | **0.03** | 0.94 | **0.01** | 0.93 | 0.26 | 0.42 | **0.004** | 0.87 | 0.20 | 0.34 | **0.03** | 0.52 |
| *T. reniformis* | 0.08 | 0.20 | 0.75 | 0.34 | 0.42 | 0.63 | 0.42 | 0.08 | 0.52 | **0.02** | **0.02** | 0.87 |

Significant differences (p ≤ 0.05) are bolded. calc = calcification, chla = chlorophyll *a*, cells = endosymbiotic algal cell density, lipid = total lipids, protein = soluble animal protein concentration, carbs = carbohydrate concentration, biomass = coral ash free dry weight per area, h= host, a = endosymbiotic algae.