(a)

| PFD | 0 ppm | | | 200 ppm | | | 400 ppm | | | 700 ppm | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **70** | 94 | 0.102 ± 0.102 | 0.074 (0.00, 0.18) **h** | | no data | | 95 | 0.411 ± 0.241 | 0.38 (0.22, 0.60) **g** | 63 | 0.304 ± 0.172 | 0.29 (0.16, 0.42) **g** |
| **60** | 68 | 0.696 ± 0.146 | 0.70 (0.62, 0.78) **f** | 76 | 0.610 ± 0.267 | 0.68 (0.41, 0.81) **f** | 78 | 0.880 ± 0.166 | 0.86 (0.76, 0.97) **de** | 76 | 0.930 ± 0.149 | 0.94 (0.86, 1.03) **d** |
| **50** | 77 | 0.773 ± 0.208 | 0.73 (0.61, 0.93) **ef** | 70 | 0.768 ± 0.192 | 0.77 (0.67, 0.89) **ef** | 78 | 0.968 ± 0.159 | 0.95 (0.85, 1.08) **d** | 81 | 0.941 ± 0.210 | 0.96 (0.81, 1.07) **d** |
| **40** | 64 | 0.956 ± 0.237 | 0.99 (0.76, 1.12) **cd** | 70 | 1.082 ± 0.145 | 1.06 (1.00, 1.18) **bc** | 74 | 1.275 ± 0.137 | 1.28 (1.18, 1.35) **a** | 72 | 1.158 ± 0.167 | 1.19 (1.10, 1.27) **b** |

N (≧4 samples×15 cells)　Mean±SD　Median (IQR)　*post-hoc* DSCF ($p < .01$)

| (b) | **PFD** | **$CO_2$ ppm** | ( PFD vs $CO_2$ ppm) |
|---|---|---|---|
| Spearman's $\rho$ | -0.7503** | 0.2746** | ( -0.0101 ) |

**: $p < .001$ (N = 1136)

Table 2.

Effects of the same $CO_2$ concentration treatment on the *f* index for Figure 9

(a) *f* values are given as Mean±SD and Median (range) with cell number (N). The Kruskal-Wallis test's $p < 0.001$ (N > 4 samples × 15 cells, df = 14). Different alphabet letters indicate significant differences in *f* ($p < 0.01$, *post-hoc* DSCF pairwise comparisons).

(b) Spearman's rank correlation ρ for *f* was evaluated for PFD and $CO_2$ concentration ($p < 0.001$. N = 1136), or between experimental conditions of PFD and $CO_2$ concentration ($p = 0.73$. N = 1136).