

## Review of: "Effects of experimental CO2 enrichment on the PSII photochemical efficiency of Symbiodinium sp. in Acropora millepora"

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Potential competing interests: No potential competing interests to declare.

The article "Effects of experimental CO2 enrichment on the PSII photochemical efficiency of Symbiodinium sp. in Acropora millepora," submitted by Kay Vopel et al., conducted several experiments to understand the PSII photochemical efficiency of *Symbiodinium* sp. in the reef-building coral *Acropora millepora* using different external stimulants. The manuscript is well-written, with all the information detailed in each section, and the supporting data can be connected to each experiment, along with the statistical analysis. However, I have a few comments for the authors to note and, if possible, to revise.

- Under the section "Determination of Seawater DIC, TA, and Salinity," how much was the actual percentage increase of CO2-enriched air injection? In the same paragraph, there is a sentence as follows: "We used these DIC and TA measurements and D." So, what does the actual D represent here?
- Under "Materials & Methods, Statistical Analyses," the last statement reads as "The tank effect was not significant and was removed from the model." Is there any supporting data in the results section that is shown in this manuscript to justify neglecting this model?

Overall, I feel the methods, validity of statistical data, and supporting statements are quite good, and this article can be considered for publishing.

Qeios ID: 25PZLY · https://doi.org/10.32388/25PZLY