

Interactive comment on “Manifestations and environmental implications of microbially-induced calcium carbonate precipitation (MICP) by the cyanobacterium *Dolichospermum flosaquae*” by Refat Abdel-Basset et al.

Refat Abdel-Basset et al.

rbasset@aun.edu.eg

Received and published: 11 January 2021

Reviewer #1: In the beginning of materials and methods, results and conclusion (line 85, 147 and 329) the name of the used organism must be fully written, not in its abbreviation form. - Why you started the physiological analysis after 4 weeks (it is too long period)? - It may better to mention whether you determined total or soluble proteins. - Line 102 needs full stop (.) between (supernatant) and (The binding). - Line 130 started with “the in vitro”, it can be rearranged within the sentence to avoid this beginning. - In line 349, I think you mean $\times 10^3$ instead of 103. - In line 352, it prefers

C1

to express chloride by “Cl” instead of “C”. - In line 356, you need to rearrange the sentences to avoid beginning with small letter (pH). - In Fig 5 (line 366), you mean “residual of what?” - In line 366, Mg is repeated twice; one must be deleted. - In line 375, I think you can replace “his” with “this”. - At the author contribution, it is preferred to write full names of authors. - In Fig 1 and all figures, no need to the head name of each figure (it is already written in its ligand). - In Fig 4, the extra bracket in Y axis should be deleted. - In Fig 5a, the unit in Y axis (mg/ml or mg.ml⁻¹) should be the same form. - In Fig 5b, letter v must be capital. - In fig 9, you may replace (ml algae) with (ml algal culture).
Response: All comments of the reviewer Amal Danial have been implemented on the text, except: I preferred to remain “his” instead of “this” as suggested by the reviewer.
Figure (5): Residual (mg L⁻¹), total (mg L⁻¹) and consumed calcium (mg. L⁻¹ or mg. μ g Chl⁻¹) of the cyanobacterium *Dolichospermum flosaquae* as influenced by calcium treatments (figure 1). I prefer the legend remains as it is to avoid repeating the word “calcium three times in a single line to be: Residual calcium (mg L⁻¹), total calcium (mg L⁻¹) and consumed calcium (mg L⁻¹ or μ g Chl a-1) of.....

Interactive comment on Biogeosciences Discuss., <https://doi.org/10.5194/bg-2020-378>, 2020.

C2