

Interactive comment on “Iron triggers colony formation in *Phaeocystis antarctica*: connecting molecular mechanisms with iron biogeochemistry” by Sara J. Bender et al.

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We thank the reviewer for their detailed comments on the manuscript. We appreciate the positive comments regarding transparency and submission to data repositories. With regards to the minor revisions on three points and minor edits, these suggestions will be undertaken and incorporated into the revised manuscript. The suggestion of a workflow figure for the supplemental material is a particularly useful one to help document the different datasets and their interrelation, particularly in the meta-omic connections. The suggestion to soften of language with regards to limiting discussion to those proteins detected is a useful clarification and reminder of the depth of our current

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analyses. And we also appreciate the suggested reference and will include that. We also thank the reviewer for the detailed specific edits suggested for the manuscript and will incorporate them. We were not aware of the origin of the EF-hand motif descriptor, but have since learned it is related to E and F helices in the original protein structure where it observed. We do not foresee any issues with incorporating these changes in a timely manner.

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