

Review of: "Infection strategy and biogeography distinguish cosmopolitan groups of marine jumbo bacteriophages"

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Potential competing interests: The author(s) declared that no potential competing interests exist.

- 1. Line41, "range".
- 2. Line41, "201 to 498".
- 3. Line45, "bacteriophages".
- 4. Line49, delete "respectively".
- 5. Line63, "shared".
- 6. Line72, "formed".
- 7. Line74-75, could the authors update the data (for example, at least 2021)?
- 8. Line86, "Despite this apparent and broad distribution in environment,".
- 9. Line89, "specifically examine only those in small particle sizes".
- 10. Line107, "were grouped".
- 11. Line 130, "grouped".
- 12. Line137, "bacteriophages".
- 13. Line151, "202 kbp"? Check it. I couldn't see the supplemental materials.
- 14. Line160, "referred".
- 15. Line178, delete "27".
- 16. Line208, delete "in".
- 17. Line253, "reflected".
- 18. Line258, in the following paragraph, the authors analyzed the relative abundance of jumbo bacteriophages across size fractions and found some difference between them, I just want to know if the authors considered the difference of DNA extraction methods for different size fractions.
- 19. Line 265, because this is the first time "<-0.22 μm" appears, please add some explanation for it.
- 20. Line265, why did the authors choose 0.1 µm as the criteria? Is there any reason?
- 21. Line291, need "µm" after the 0.22.
- 22. Line291, I am just curious why the 0.1-0.22 μm can appear in both below 0.22 μm fraction and above 0.22 μm fraction.
- 23. Line314-315, the abundance of PGC_B and PGC_D was both higher in DCM and MES according to Figure 5d, please make a proper description.
- 24. Line355, in my opinion, the conclusion should be what the authors do, what their results are and how the results guide future study, therefore there is no need to cite articles here. Meanwhile, the conclusion should be short and concise.



Please refine that.

- 25. Line452, "p-value" or "P-value"? Check it and make it consistent in the whole paper.
- 26. Line679, is the legend in Figure 1b suitable for other three figures in Figure 1? If yes, please add some description in the Figure 1 legend. And add description of y-axis in Figure 1b.
- 27. Line696, in the Figure 3b, what does the meaning of the color?
- 28. Line701, in the Figure 4b,c, what does the number of stars mean? Please, add some description in the legend (the same problem for the Figure 5d). And what is the x-label in Figure 4c? (like y-label in Figure 5c)
- 29. Line701, please add the P-value and ANOSIM to the Figure 4d,e.
- 30. Line716, the authors may consider that the data in y-label can be transformed to show the difference, for example logarithm (the same problem for the x-label in Figure 4c).
- 31. Line716, there are two PGC_B in Figure 5d. Check it.