

# Review of: "Broad Immunity of *Acinetobacter baumannii* lysogens: Implications for Phage Therapy Strategies"

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**Potential competing interests:** No potential competing interests to declare.

The manuscript provides valuable insights into the broad immunity of *Acinetobacter baumannii* lysogens, which is highly relevant for advancing phage therapy strategies. The study demonstrates a well-executed exploration of phage efficacy, stability, and potential challenges with lysogen induction. The manuscript overall is strong and offers meaningful contributions to the field of phage therapy.

However, addressing the points mentioned below will help in refining the manuscript further and ensure consistency and clarity in the presentation:

1. Can you clarify the criteria used for selecting the AB-phages (AB-phage-22, AB-phage-27, and AB-phage-32) for this study?
2. How did you determine the specific MOI values needed to prevent lysogen formation, and are these values consistent across different *Acinetobacter baumannii* strains?
3. Could you expand on the practical applications of your findings in clinical settings? For example, how might these findings guide phage therapy dosing?
4. Are there specific reasons why cocktail phage therapy did not show enhanced efficacy in this study compared to single-phage treatments?
5. In the keywords, "baummaneii" should be corrected to "baumannii."
6. The term "super-infection immunity" is inconsistently hyphenated. In some places, it appears as "superinfection immunity." For consistency, consider using "superinfection" without a hyphen.
7. "Siphovirdae" should be corrected to "Siphoviridae."
8. In the phrase "Podoviridae-like, and Myoviridae-like," please remove the comma after "Podoviridae-like."
9. The term "freeze-thaw" is inconsistently hyphenated. Sometimes it appears as "freeze/thaw." It is recommended to use one format consistently.
10. The bacterium "*Acinetobacter baummaneii*" should consistently be spelled as "*Acinetobacter baumannii*" throughout the manuscript.
11. For consistency, ensure that "MOI" is defined as "multiplicity of infection" the first time it appears, and then use the abbreviation thereafter.
12. The phrase "the combination of AB-phages in this study... did not prove to be more effective" could be clearer if rephrased. Suggested: "In this study, the combination of AB-phages was not more effective..."

13. There is inconsistent spacing around references.