

Review of: "[Review] The Studies of Lipid Phase Polymorphism in Model Membranes"

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Potential competing interests: No potential competing interests to declare.

The issue discussed here has been studied for long ago and is still under study. Therefore, literature is rich making difficult to review it in a brief review.

Authors here give a very brief introduction of non-bilayer topology and its inductors, giving just some examples, without justifying the election. I feel that the review is not clear for people outside the field, and is too basic who work on the subject.

Besides introducing non-bilayer topology of membranes, the review focuses on cationic peptides/proteins as inductors. This is again a very studied field, difficult to summarize in a short review. Authors discuss 5 proteins and peptides, why did you choose them over others? The same comment for the selection of lipid composition and employed techniques.

Finally, a discussion to where we go from now is missing