

Review of: "[Review] Contemporary Physical Methods in Studies of Lipid Phase Polymorphism"

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Potential competing interests: No potential competing interests to declare.

This manuscript reviewed the physical methods employed in the studies of dynamic structure of non-bilayer lipid phases in model and biological membranes over past sixty years. The authors also outlined the important experimental and theoretical research data of each method. This manuscript upon published will be interesting to a broad audience, especially those who are interesting in the activity of biological membranes. Minor revisions should be considered before the publication:

1. The keywords are too detailed and they don't make a good generalization of the whole manuscript. Some words such as "lipid polymorphism" and "membrane structure" are suggested.
3. As a review, the principle of each technique should briefly be introduced. Adding a schematic graph to illustrate the principle in the figures would be a good choice.
4. A table comparing the advantages and disadvantage of different techniques would be very helpful.
5. The future prospect is an important part of a review and is strongly suggested.