

# Review of: "[Review] Structural and Functional Roles of Non-bilayer Lipid Phase in Mitochondria"

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

This is an extremely dense minireview of the role of cardiolipin (CL) in the non-bilayer phase in mitochondria. The authors present a novel, potentially relevant, physiological function in the transition from bilayer to non-bilayer involving CL.

This novel feature is, however, inconsistent with traditional, established views of the non-bilayer CL phase, generally viewed as a response to pathological triggers leading to membrane disruption/permeability, and apoptosis.

This review would be more impactful if a discussion can be included on the relationship between physiological and pathological impacts (if any) of the transitions from bilayer to non-bilayer, in order to help readers who may be confused by the differences in perspectives, further understand the relevance of this exciting, potentially relevant physiological function of the non-bilayer phase of CL in mitochondria.