

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

Maria João Moreno<sup>1</sup>

<sup>1</sup> Universidade de Coimbra

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

The manuscript would benefit from an English revision. Some examples: “osmotically shocked”, “At about same time”, “... after the work in [2] the non-bilayer...”.

The addition of a short introduction regarding the shape of the <sup>31</sup>P-NMR spectra for the phospholipids organized in different structures would also improve the readability of the manuscript. The reference to a “symmetrical slightly broad line shape with the signal peak at 6 ppm” is not very informative and may be misleading. Alternatively, the authors could refer to the evidence of non-bilayer phases without specifying the shape of the <sup>31</sup>P-NMR spectra. Moreover, the references cited for this signal at 6 ppm is not easily available to the scientific community. In contrast, the publication by the same author in BBA (Ref 8), although focused on the same subject makes no reference to a signal at 6 ppm.

Some discussion may also be relevant regarding the importance of Ca<sup>2+</sup> in the formation of non-bilayer phases by cardiolipin.