

Review of: "Exploring the ATP Synthesis in Unique Cellular Structures: A Preliminary Hypothesis"

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Potential competing interests: No potential competing interests to declare.

Although the proposed hypothesis is quite interesting, the interpretation of the obtained results could be confusing, as it is mentioned in the discussion section.

If others mechanism that involves the synthesis or consumption of ATP, like the cell metabolism, are not possible to be isolated, how it is possible to study the products of the hypothesized mechanism? They are going to be altered. So, the first way to study such mechanism is to isolate, or at least, control the other reactions in which ATP could be involved.

Once you have achieved it, you can study the products of such mechanism.

However, It is not really clear how labelled H_2PO_4^- could help to identify such hypothesis. What products are expected to be observed if ATP synthesis follows the already known mechanism suggested by Austin et al.? If the proportion of products are different, maybe, it could be easier identify the products of the reaction, instead of using labelled molecules.