## Qeios

### Peer Review

# Review of: "Mechanisms of Glycolysis and Fermentation: A Non-Equilibrium Thermodynamics Perspective"

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Using at times ironic language, the authors examine in depth the traditional, old chemical reactions that are the basis of glycolysis and fermentation, highlighting their incompleteness and their poorly understood acidic nature. By integrating them through the correct positioning of protons, the authors propose the reactions in a new and more complete perspective, especially from the energetic and functional point of view. The text is well written, clearly by experts. It contains many new ideas and insights; you may disagree with something, but it is essential to read and discuss it if you want to progress.

This preprint ver1 needs only minor corrections:

- 1. Substitution of glycose with glucose (one time)
- 2. Substitution of Phlogistron with Phlogiston (three times)
- Substitution of Reference n. 15 with PETER MITCHELL; Vectorial Chemistry and the Molecular Mechanics of Chemiosmotic Coupling: Power Transmission by Proticity. *Biochem Soc Trans* 1 June 1976; 4 (3): 399–430. doi: <u>https://doi.org/10.1042/bst0040399</u>

### Declarations

Potential competing interests: No potential competing interests to declare.