

Review of: "Forecasting of the influence of physical fields on the metabolic nanocurrent in proteins"

Xing Li¹

¹ Nanjing University of Aeronautics and Astronautics

Potential competing interests: No potential competing interests to declare.

This manuscript has theoretically studied the electrons transfer process of ATP synthesis, and introduced a possible method to control electron transfers along a protein-like nanowire using a magnetic field. In my personal view, the topic is interesting and the work is good to be published. While, there are still some concerns should be explained and some errors should be revised.

1. In the abstract, "23 to 205 pA" should be "23 pA to 205 pA" or "23 - 205 pA".
2. Do not use dot between numerical multiplication, for example "should be".
3. The resolution of all figures is low, please improve figure quality.
4. Physical models should be developed in the manuscript, including the electron transfer process, how the magnetic field affect the micro current, etc. Please add some figures about them to make a better understanding and more readable of this manuscript.
5. Authors mentioned the found threshold value of the magnetic field at which ATP synthesis can be blocked is consistent with observations, but I did not find any introduction about the observation, experiments? or some other evidences to support this comment, please explain.
6. In conclusion, "Therefore, the question of averaged consideration of a protein molecule was studing. in detail" should be "... was studied"