

Peer Review

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

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I liked the idea of looking at glycolysis/fermentation in the context of energy flow, which also should be studied rather than focusing just on chemical reactions.

In this study, the authors discuss other aspects of glycolysis that are not just limited to producing ATP. I understood that lactate is not a waste product but the first biosynthesis product, and it helps in processes such as memory and inflammation.

Enzyme complexes and proton flow are the crucial aspects of metabolism, and this article discusses that very well. As the paper suggests, it's time to rethink and study metabolism in these directions instead of considering them just as static chemical reactions.

Metabolism is a dynamic, energy flow system. It's time teachers also should make their students learn about metabolism in this way.

Declarations

Potential competing interests: No potential competing interests to declare.