

Review of: "The Evolution of Consciousness Theories"

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In the paper, the author reviews existing theories of consciousness and compares them, illustrating their evolution and highlighting their inherent limitations. The author demonstrates that all current theories possess certain constraints, yet we remain far from a comprehensive understanding of the origin of consciousness. From a neurophysiological standpoint, existing theories lack the provision of neural mechanisms for consciousness processes.

While the comparative analysis in the paper is engaging, it bears some resemblance to the recently published review by Seth, A.K., and Bayne, T. titled "Theories of Consciousness" in *Nat Rev Neurosci* 23, 439–452 (2022). The paper should explicitly outline the distinctive features of the present review to elucidate its added value compared to existing literature.

The realm of theories on consciousness is vast, with numerous papers and books available, such as Hedda Hassel Mørch's "Non-physicalist Theories of Consciousness" (Cambridge, 2023), and related references. Notably, the review omits discussion of other noteworthy theories, like the Relativistic Theory developed by Lahac and Neemeth [*Front. Psychol.*, 12 May 2022, Sec. Consciousness Research, Volume 12 – 2021].

In conclusion, the paper offers a valuable review of existing theories of consciousness but necessitates clarification on its distinctiveness and the inclusion of relevant theories not covered in the current analysis. Addressing these concerns will significantly augment the paper's contribution to the field.