

Peer Review

Review of: "Emergence ex Machina: Correlates of Consciousness"

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This article provides an interesting and broad review of consciousness, exploring its physical, biological, neural, and behavioural correlates through various theories and frameworks. The text is a fantastic gateway for readers interested in current consciousness research.

Given the ambitious scope and limited space, some fascinating topics are necessarily covered only briefly. For example, expanding on recent cellular-level frameworks such as dendritic integration theory, or discussing macroscale neural correlates, like the recent adversarial GNW/IIT study, could enrich the discussion of recent research.

One way to address this would be to incorporate more references throughout, as some intriguing statements currently lack citation (e.g., *Studies of crows and macaques demonstrated...*). Additionally, at times certain specialised terms are undefined. While this might encourage deeper exploration, it could also present challenges, as these terms play a crucial role in shaping the concepts and arguments presented (e.g., “*hologram-type phenomena*”). Moving the table referenced later in the text to an earlier position could provide helpful context upfront, enhancing both readability and the overall flow of the article.

Overall, this is a compelling overview of consciousness research!

Declarations

Potential competing interests: No potential competing interests to declare.