

Review of: "AI-Generated Hallmarks of Aging and Cancer: A Computational Approach Using Causal Emergence and Dependency Networks"

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Potential competing interests: No potential competing interests to declare.

1. The mechanism by which "hallmark-level features show stronger disease associations" needs better explanation.
2. The process of aggregating pathways into hallmarks needs more detailed description.
The relationship between TCM terms and molecular mechanisms requires better explanation.
3. The criteria for determining "super-regulators" needs more rigorous definition.
4. Linear model assumptions not tested. No consideration of non-linear relationships.

The methodology has potential merit, but these unclear or problematic aspects need to be resolved for the approach to be properly evaluated and implemented by others in the field.