

'DYNAMIC CAUSAL DISCOVERY: OPEN-ENDED MAPPING OF NEUROINFLAMMATORY PATHWAYS'

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KEY TAKEAWAY: Self-improving AI framework accelerates complex Alzheimer's pathway mapping by recursively evolving scientific principles.

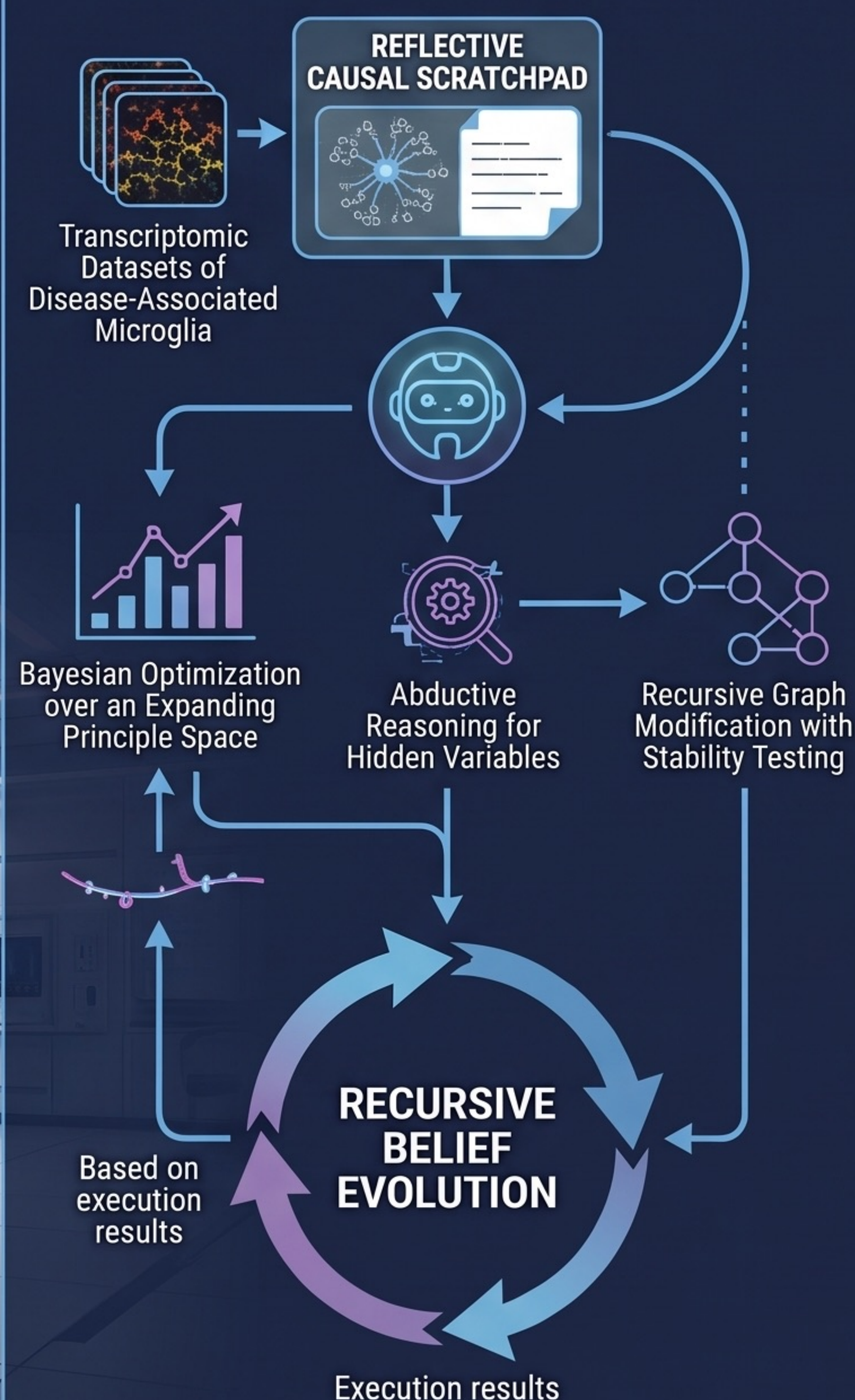
INTRODUCTION



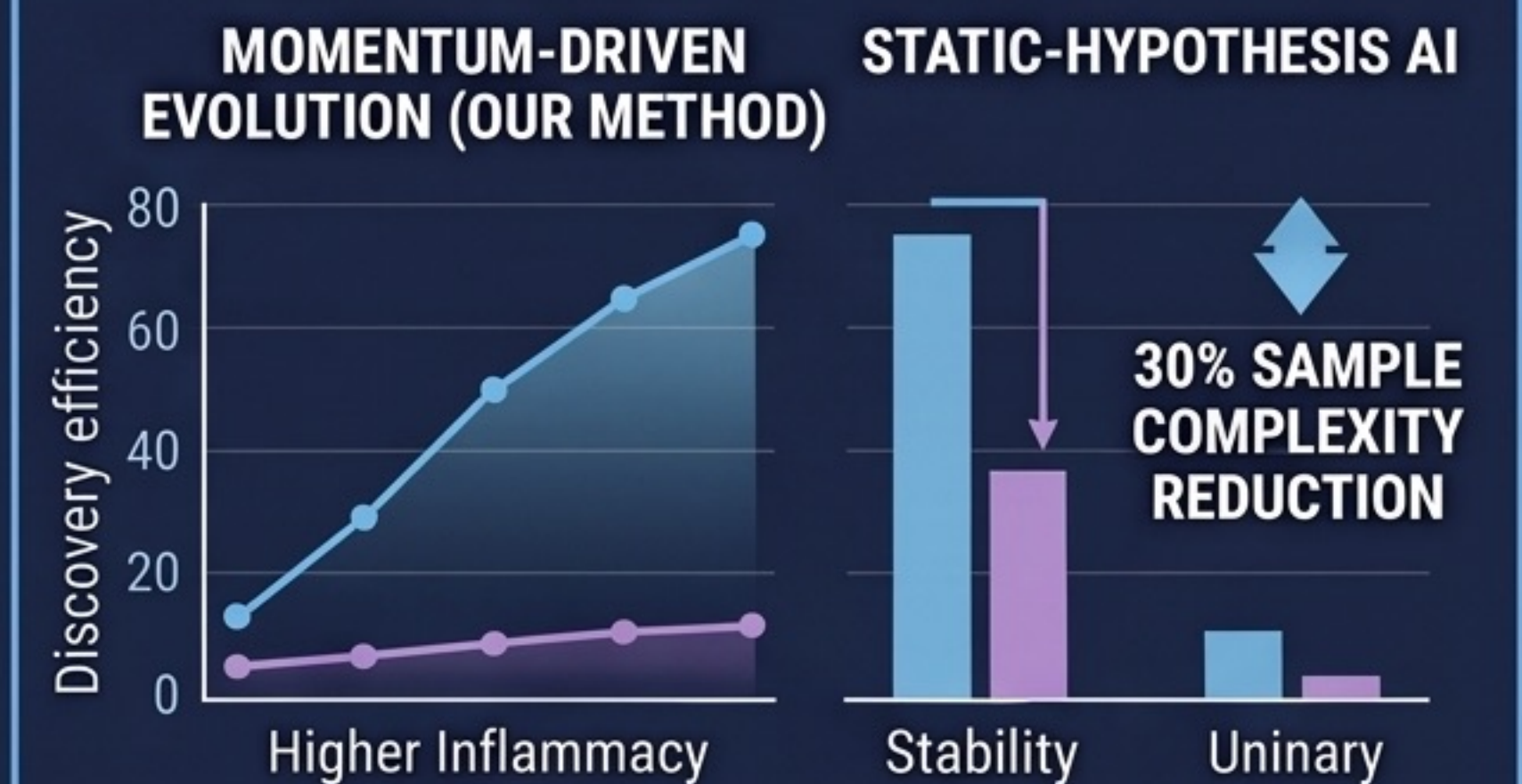
OPEN-ENDED PROBLEM:
Neuroinflammation in AD is complex.

LIMITATIONS OF STATIC AI:
Evolutionary algorithms lack guided exploration, limiting complex hypothesis discovery.

METHODS

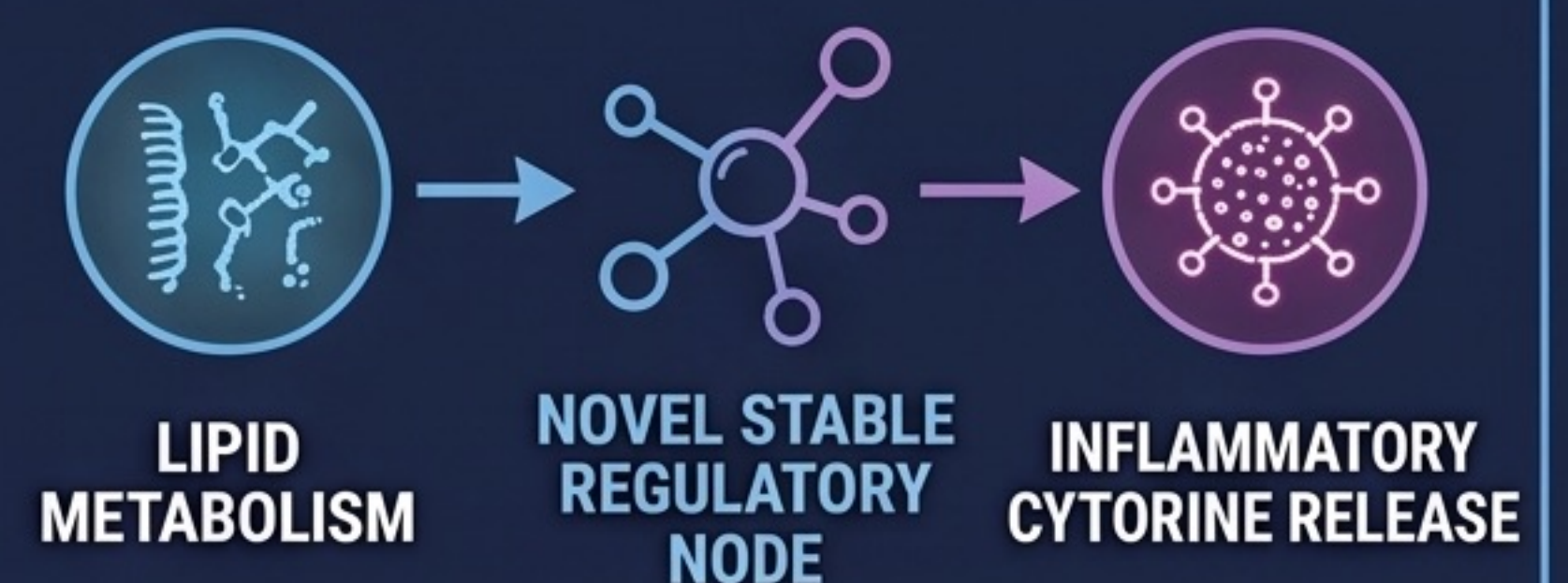


RESULTS



Stability may higher morrcomprnam-orven atability and normal and discovery efficiency.

NON-CANONICAL REGULATORY PATHWAY



CONCLUSIONS

Shift from fixed hypotheses to hypotheses to dynamically evolving principles:

- DRIVES HIGHLY EFFICIENT, AUTONOMOUS DISCOVERY OF AD PATHOLOGY
- BYPASSES LOCAL OPTIMA TO FIND NOVEL PATHWAYS

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