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KEY TAKEAWAY: SAFE, EFFICIENT, EVIDENCE-GROUNDED AI RESEARCH REQUIRES KNOWLEDGE GRAPH INTEGRATION AND NEURO-SYMBOLIC VERIFICATION.

BACKGROUND & CHALLENGE



Generic AI scientist



Medical AI Scientist

Domain-agnostic AI **scientists** show promise in grouping AI scientists ind over an automated self-driving research laboratory, to experience **broaching** and **coefficienties**.

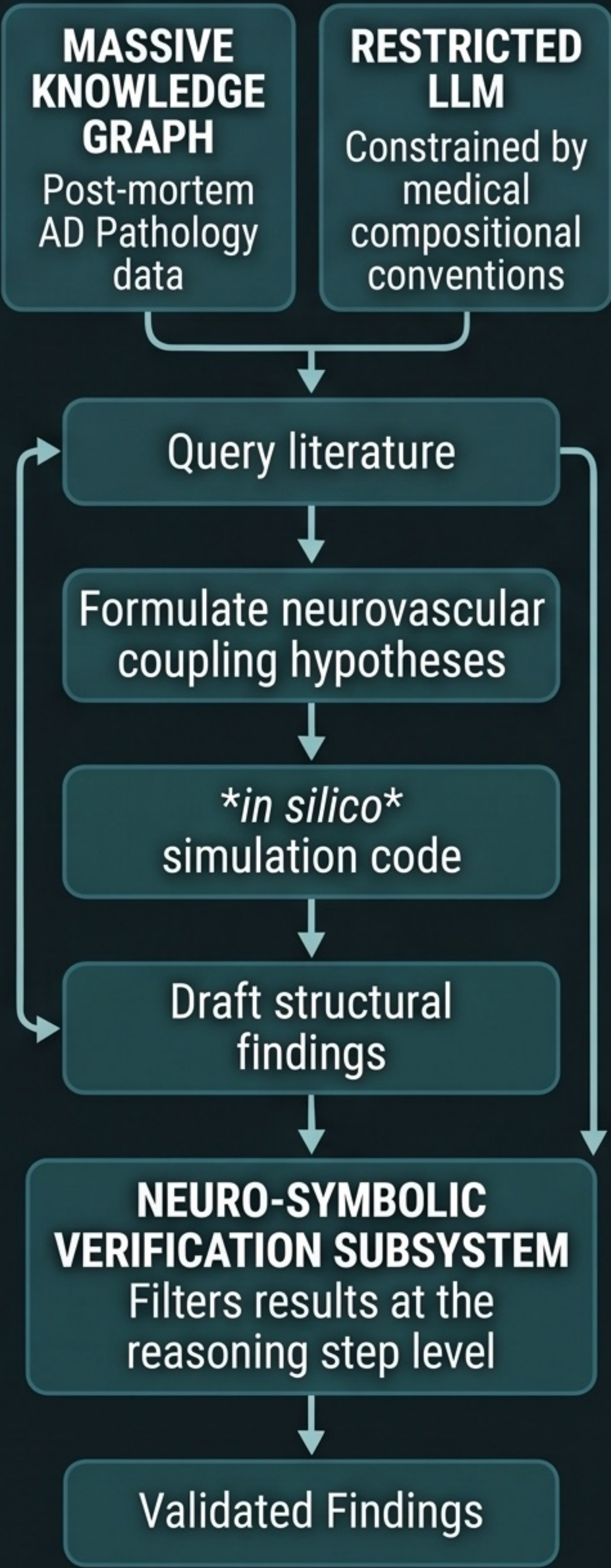


Embedding structured domain knowledge into recursive self-improvement loops **analysics** biological hallucinations.

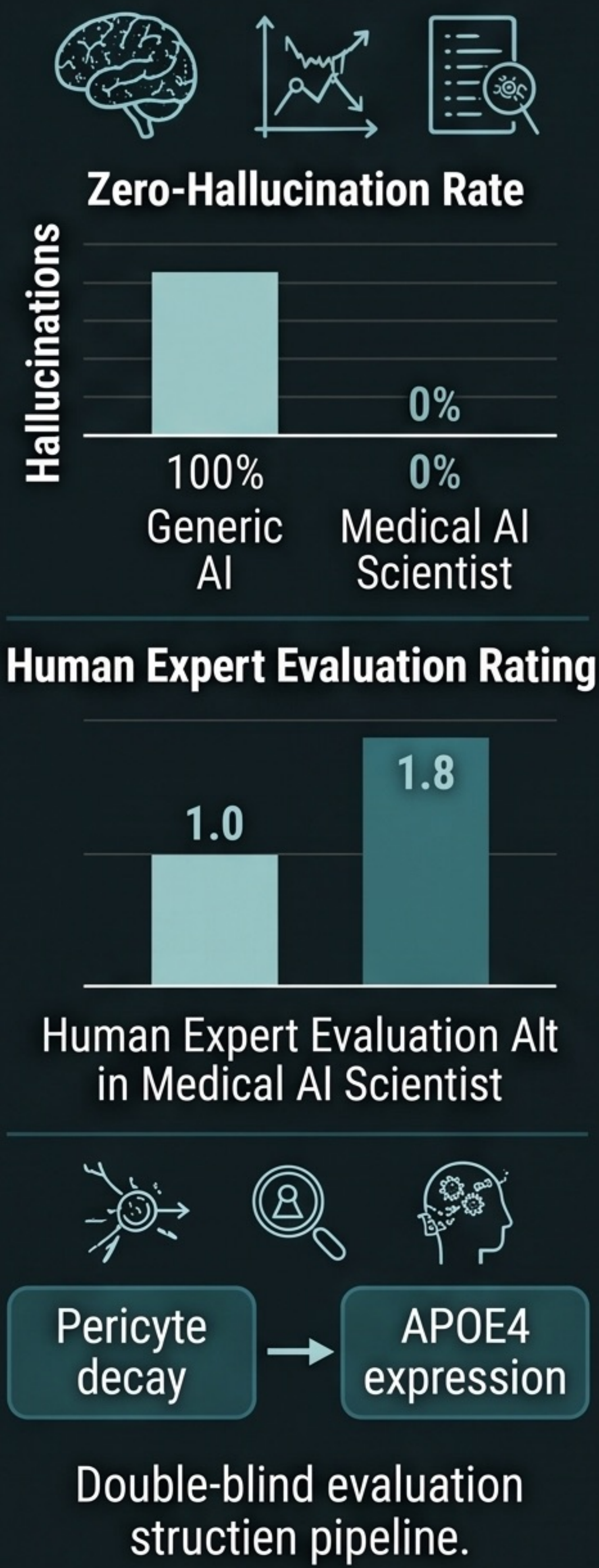


Embedding structured domain knowi**oramt** research **n transification** and announces automated research **sciensits**.

METHODS THE MEDICAL AI SCIENTIST FRAMEWORK



RESULTS VALIDATING SAFE AUTONOMOUS DISCOVERY



CONCLUSIONS FUTURE OF EVIDENCE-GROUNDED AI

VALIDATED DISCOVERY
High-Feasibility, Grounded Targets

***IN VIVO* VALIDATION**
Pre-Clinical Model Testing

FAST-TRACK CLINICAL TRIALS
Accelerated Regulatory Pathways

- Safe/effective autonomous AI in AD requires specialized, evidence-grounded constraints.
- Embedding structured domain knowledge into recursive self-improvement loops prevents biological hallucinations.
- Yields highly actionable translational research proposals.
- Translational Research