



How Can a Life-Science Harness Scale Idea Generation?

ConceptSpace-Explorer

scalingX

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In co-designing how a life-science harness can scale idea generation toward novel insight, our biggest focus is countering literature gravity — because we know that summarizing and retrieving over existing papers lets you escape the pull of existing concepts only far enough to generate topics that look hot but carry no real taste.

CoI-Agent (ACL 2025 Findings) organizes the literature into chains of thought, which is indeed far better than piling papers together — but a chain structure is still extrapolation along existing paths. EvoSci (ACL 2026) introduces deviation through an evolutionary mechanism, yet its mutation space remains bounded by entity combinations already present in the knowledge graph.

Moreover, I feel this should not have a benchmark at all: something like novel insight simply should not be judged by an LLM. The best approach is therefore real users scaling it while using it.

So our route is ConceptSpace-Explorer — not walking along the literature, but actively searching concept space for structural blanks that “should be connected but are not”, and constraining the testability of every hypothesis through adversarial falsification.

Interested in finding blank spots in concept space? DM.