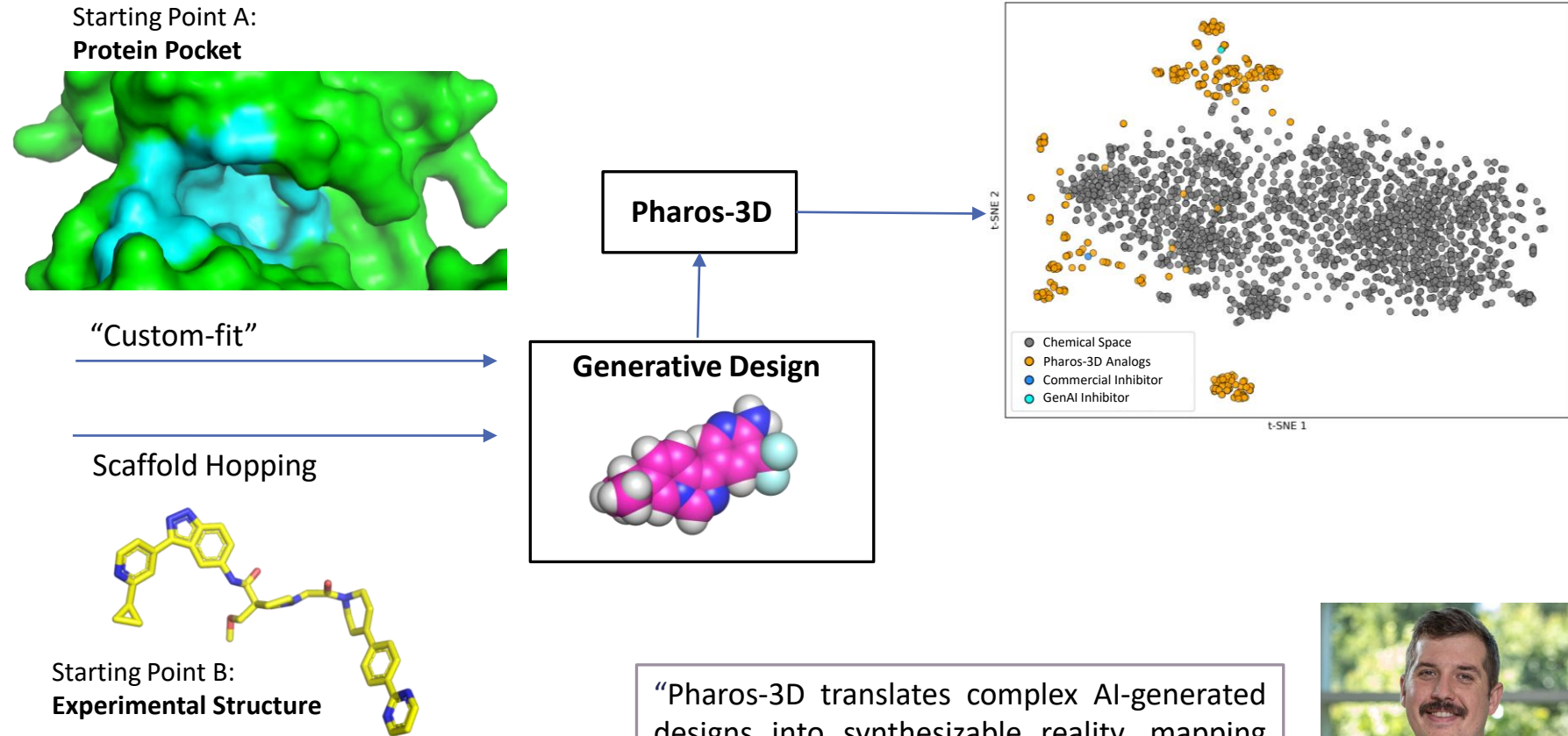


From AI Concept to Lab Reality: Pharos-3D Integrated GenAI for Synthesizable Hit Discovery



While GenAI excels at creatively exploring chemical space, the lack of a clear path from a structure hypothesis to a physical compound creates a costly bottleneck in drug discovery. Pharos-3D can utilize diverse, non-trivial chemical starting points to map generative innovation into chemical reality, ensuring every AI-designed lead has a viable, commercially orderable, synthesizable path to the experiment.

At our lab, numerous active analogs were identified, with one recapitulating the activity profile of the input commercial inhibitor with a smaller scaffold poised for easier medicinal chemistry optimization.



“Pharos-3D translates complex AI-generated designs into synthesizable reality, mapping elusive structures to commercially available 3D-analogs of an AI-generated design.”

Sven Miller, Assistant Research Professor, Fox Chase Cancer Center

