

# The Protein Binder Printer: Fully Automated Closed-Loop AI-Driven Protein Binder Design

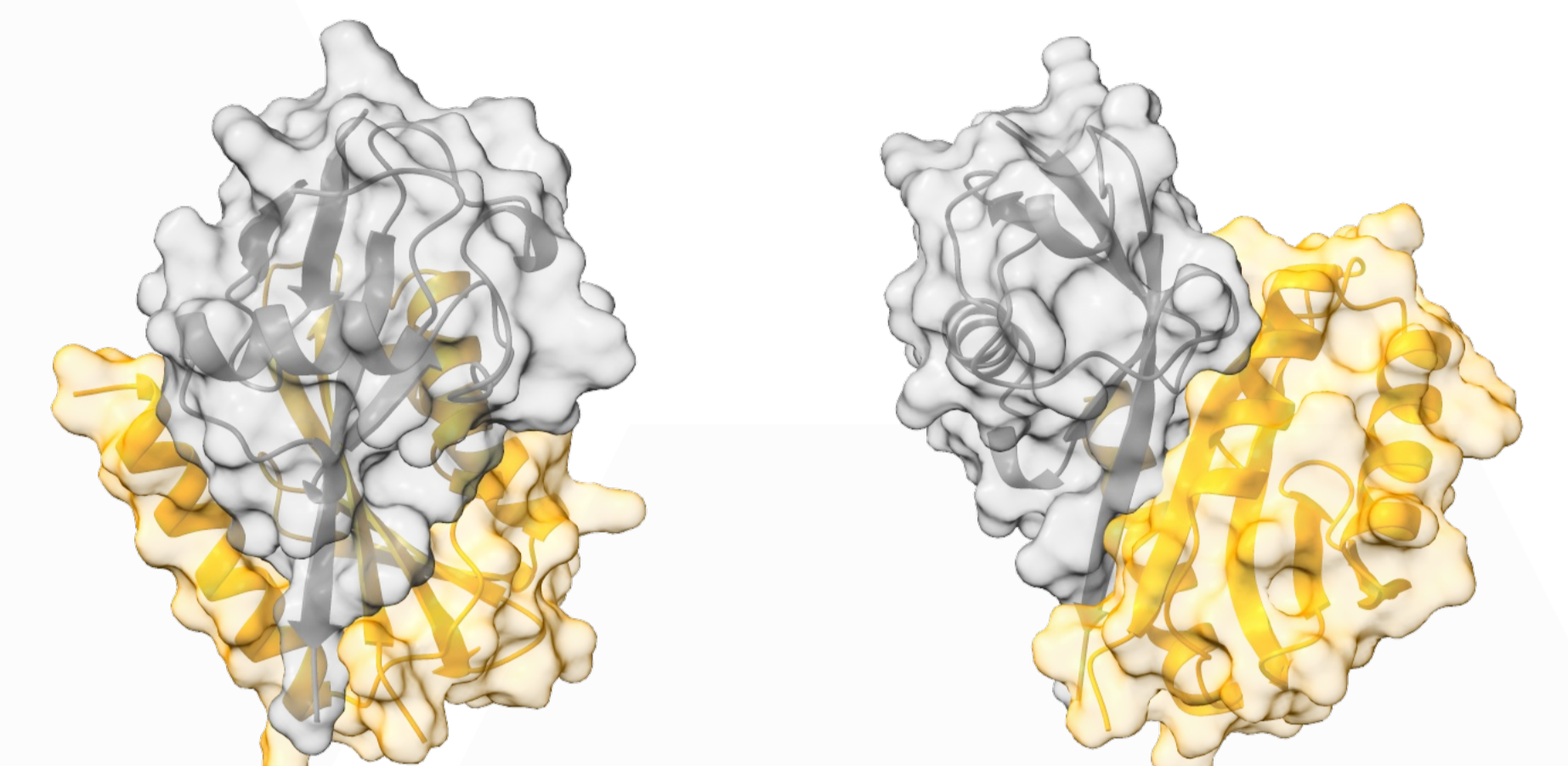
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**1 Abstract**  
 We present the early-stage development of our AI-driven, fully-autonomous platform for protein binder design, integrating generative modeling, *in silico* screening, and automated *in vitro* assays. High-throughput quantitative feedback from binding, stability, and solubility measurements enables rapid refinement in a closed loop, establishing a fast, automated, and animal-free approach to therapeutic and diagnostic binder development.

**2 Binders have a broad range of applications**

- Therapeutics
  - IMPAC-T cells
  - Degraders
- Diagnostics
  - Bio-threat detection
- Bioindustrials
  - Lab reagents



Anti-ubiquitin binder (ipAE = 3.8 Å, pLDDT = 93.5)

