



# Medicine's Secret Weapon:

**7** Mind-Blowing AI Breakthroughs in Pharma



**Adaptyv Bio** launched a protein engineering foundry, adopting Gen AI, open-source software, and synthetic biology to develop new medicines, enzymes, and sustainable materials.

Their method slashes  
reagent use by

**1,000x**

compared to the  
alternatives available  
on the market.



**MIT's DiffDock** enhanced molecular docking predictions. It enables researchers to speed up drug target identification and reduce the possibility of side effects.

On the PDBBind blind docking task, DiffDock got a **38%** top-1 accuracy greatly surpassing other molecular docking models.





**AbSci** announced its use of zero-shot AI in antibody design, striving to reduce the time to clinic for new medicament candidates.

They found it to be between

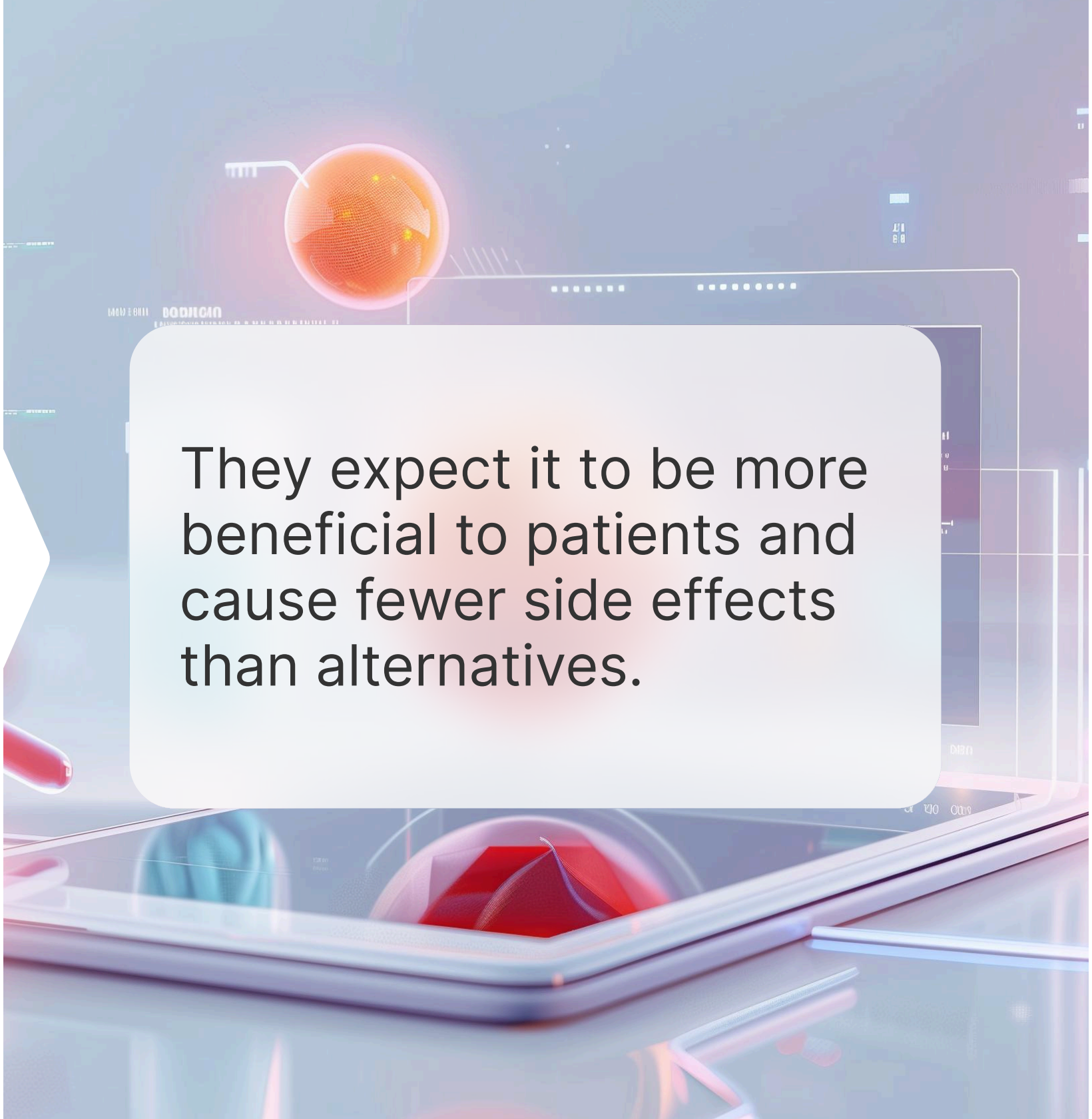
**5** and **30**

times more effective than existing practices.





**The FDA** cleared an IND application for A2A Pharma's AI-discovered TACC3 PPI inhibitor for women's cancer.



They expect it to be more beneficial to patients and cause fewer side effects than alternatives.



## **Insilico Medicine's**

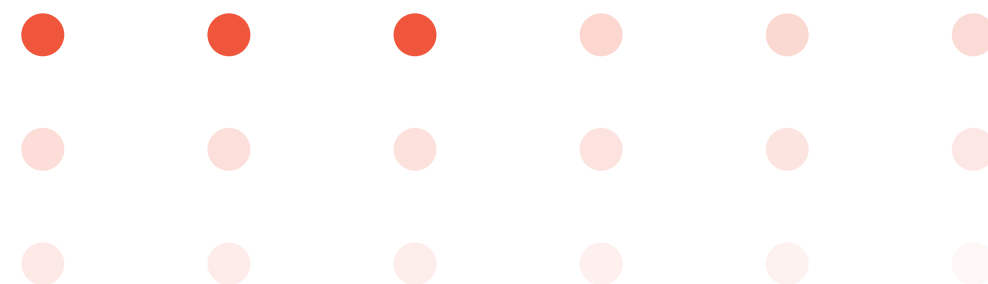
AI-generated drug, INS018\_055 has entered Phase II clinical trials with patients. It is designed for treating idiopathic pulmonary fibrosis, a rare, debilitating lung disease.

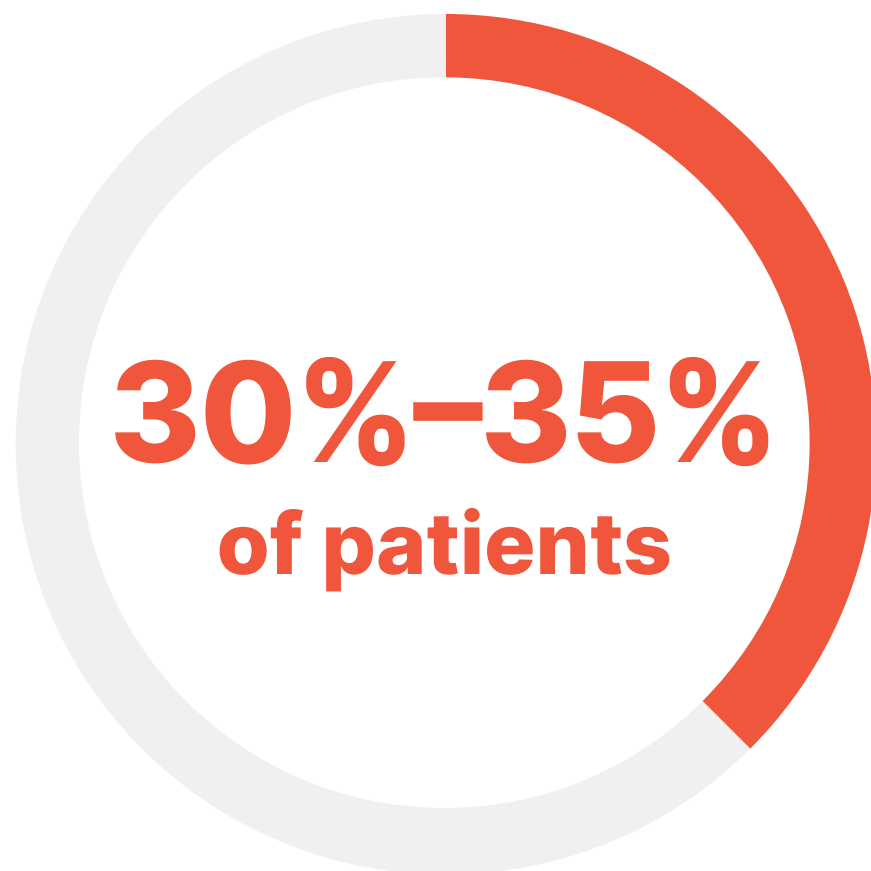
The progress to Phase II took

**3 years**

compared to the traditional

**12 to 18 years**





**Pharos iBio** invented an AI-driven anticancer medication handling the FLT3 gene mutation found in approximately **30%-35%** of patients.



**Sanofi** has accelerated its drug discovery process and improved clinical research design.

The company also boosted probable target identification in immunology, oncology, and neurology by **20% – 30%**

This integration of AI in mRNA research reduced the selection time for lipid nanoparticles from months to mere days.





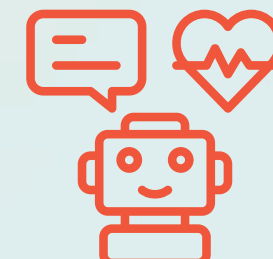
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