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.

top-1
Accuracy

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

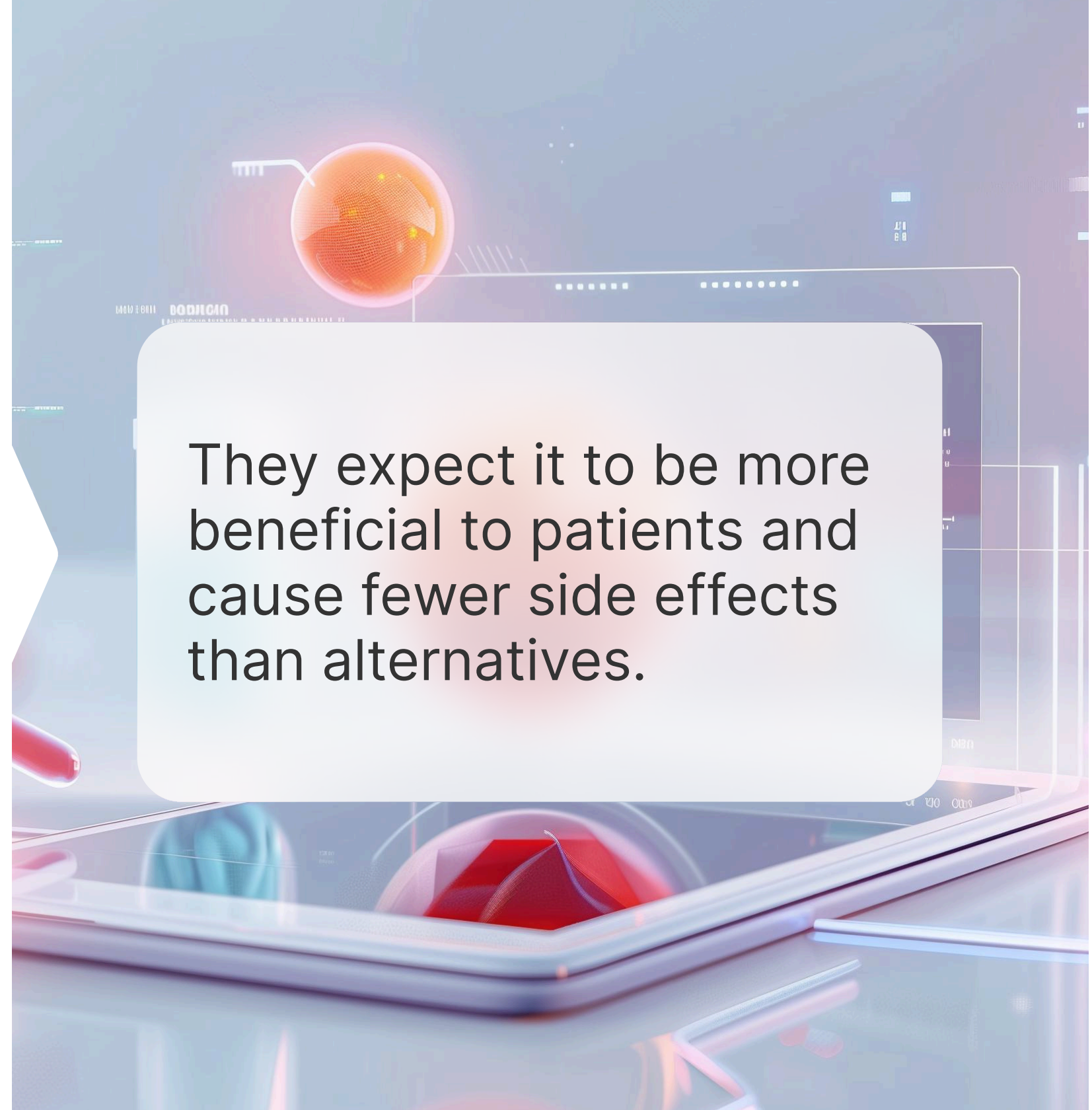They found it to be between

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.
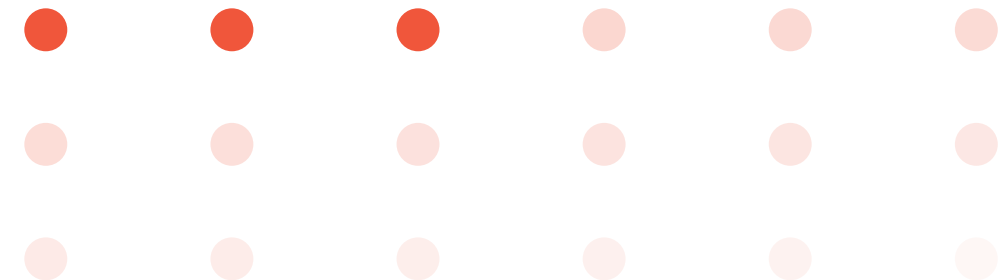
Insilico Medicine's AI-generated drug, INS018_055 has entered Phase II clinical trials with patients. It is designed for treating idiopathic pulmonary fibrosis, a rare, debilitating lung disease.
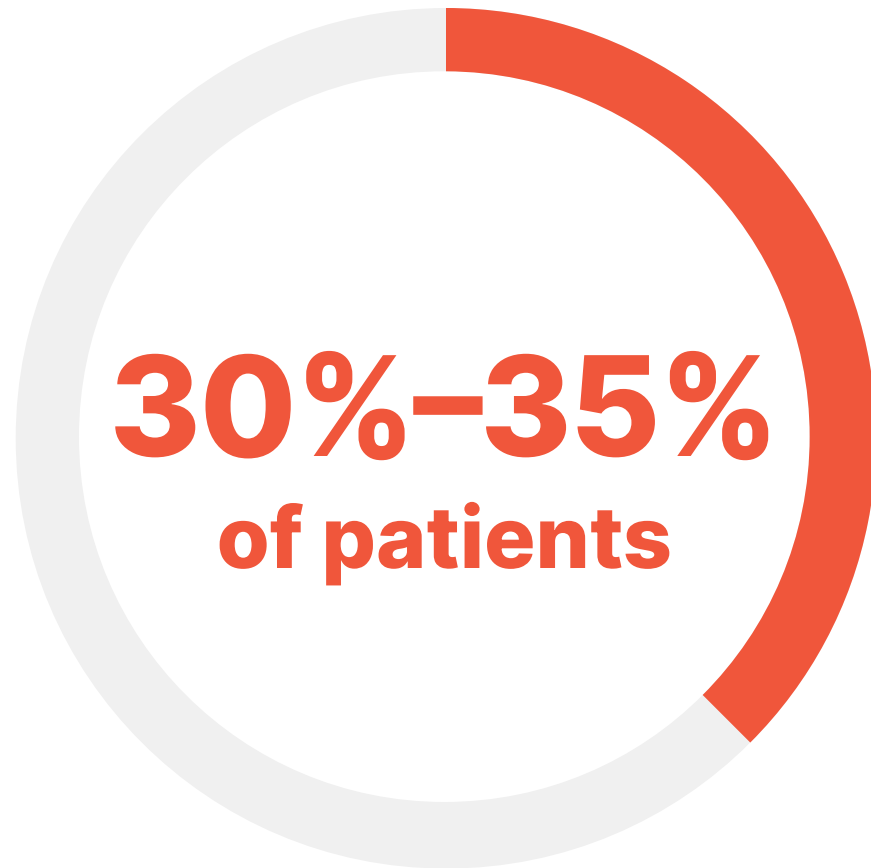
The progress to Phase II took

3 years

compared to the traditional

12 to 18 years

30%–35%
of patients

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.
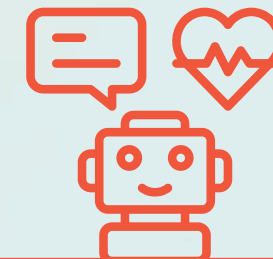
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our in-depth guide on
Generative AI in
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