

Problem

Nanotechnology will revolutionize many different industries, but currently the design and testing process is slow, manufacturing is costly, and the technology takes a decade to gain FDA approval.

Solution

We simulate the nanorobots' interaction within an environment, then use an evolutionary algorithm to quickly iterate through designs to find the best one.

How it Works

Simulation

1

Using molecular dynamics simulation, we simulate the nanobot's interactions with an environment. This allows researchers to quickly test designs and iterate upon them, without going through expensive and time consuming testing processes.

Evolutionary Algorithm

2

Utilizing an evolutionary algorithm, we rapidly test various designs in the simulation, and iterate to optimize for certain measures. This process allows us to find the best nanobot design for any application.

Nanobots

3

The nanobot components our developers create will be stored in our database and available for everyone, which allows even faster development of nanorobots. The nanorobots will then be manufactured using molecular assemblers.



Cancer

Nanobots could detect cancer much faster, and perform targeted drug delivery, mitigating the sideeffects of conventional cancer treatment



Hematology

Nanorobots could be developed to transport oxygen throughout the body in case a patient stops breathing. They could also help blood clots.



Biohazard

In areas with little infrastructure, nanobots could transmit real-time data about a person's health to help control epidemics

With our end-to-end process, from the initial design to manufacturing, our platform allows researchers to create breakthrough nanorobots quickly and cheaply, exponentially increasing the progress of the industry.