Benchling

CASE STUDY

Building a Global Informatics Infrastructure

agenus

GOAL

Building a Global Informatics Infrastructure

Agenus is a global biopharmaceutical company with multiple immunotherapy and vaccine pipeline programs. The company employs scientific staff spread across four discovery, screening, and characterization facilities around the world.

CHALLENGES

- Without unified systems, it was difficult for scientists to effectively find and share information.
- Globally-distributed R&D team impeded team collaboration.
- Complexity of R&D workflows exacerbated difficulties tracking samples and experiments.

KEY BENEFITS

Centralizing experimental data

Benchling replaced Agenus's multiple informatics systems with a single, end-to-end platform where they track all of their experiments, results, and samples.

Tracking across international sites

Benchling made all institutional knowledge accessible to scientists across the globe, dramatically streamlining data transfer and sample tracking.

Mining success patterns

Agenus mines data across past experiments to determine which factors led to success and optimize future experimental design.

"Biologics R&D is an environment that's very difficult to integrate data across, but Benchling gives us access to all of it."

Dennis Underwood, VP Molecular & Informatics Systems

Benchling Solutions

Achieving shorter timelines with seamless collaboration

- At any given time, Agenus's scientists can see the experiments, results, and proteins of their colleagues.
- By knowing every experiment done previously and which reagents have been produced, scientists can review and plan experiments much faster.
- Across the board, Agenus as a company is accelerating their timelines.

Answering any question about any sample across international sites

- With complex workflows, scientists input initial information and capture every subsequent detail as experiments transfer across groups and sites.
- For a given protein, Agenus knows which cell line produced it, which sequence engineered the cell line, and which processes took place.
- Agenus knows exactly how every candidate was derived without any ambiguity.

Learning more from every experiment

- Agenus reviews their historical data to understand what distinguishes each of their molecules.
- For example, certain peptides are more difficult to synthesize than others. Agenus mines patterns across these peptides to determine what predicts difficult synthesis.
- Agenus works even faster by proactively applying these learnings. They predict which proteins will be more difficult to synthesize and adjust their processes accordingly.