Benchling *agenus*

Building a Global Informatics Infrastructure

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

PRIOR CHALLENGES

1 / Without unified systems, it was difficult for scientists to effectively find and share information.

2 / Globally-distributed R&D team impeded team collaboration.

3 / Complexity of R&D workflows exacerbated difficulties tracking samples and experiments.

KEY BENEFITS

1 / 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.

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

3 / 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**

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.