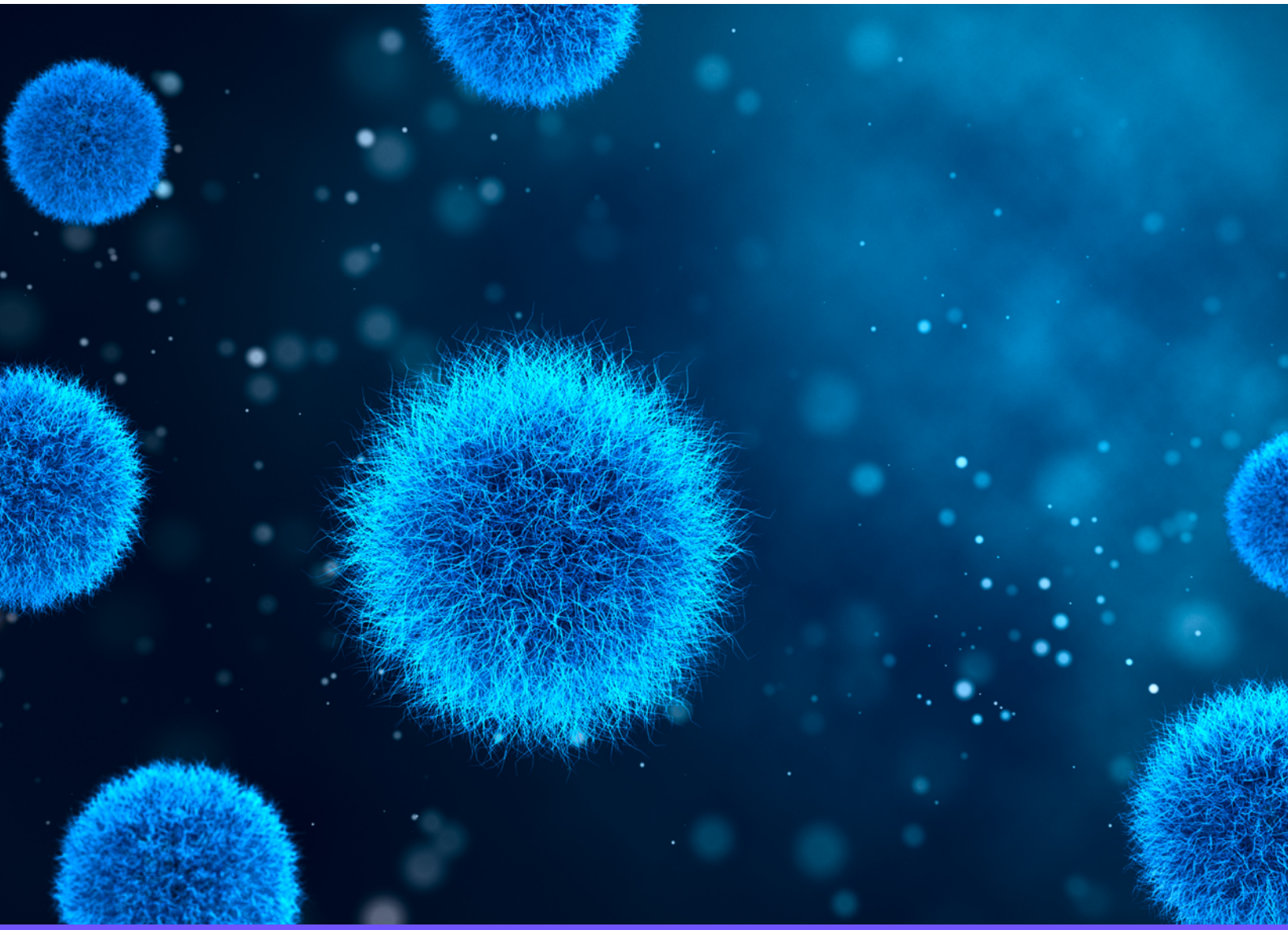
Benchling

CASE STUDY

Integrating the Custom Solutions of a Technology Powerhouse



zymergen

GOAL

Integrating the Custom Solutions of a Technology Powerhouse

Zymergen is an industrial biotechnology company that engineers microbes to produce high-value commercial molecules. The company employs many custom software systems and algorithms that allow their scientists to push the boundaries of strain engineering.

CHALLENGES

- With many siloed pieces of custom software, it was difficult for scientists to enter and extract data.
- Scientists in the strain optimization and fermentation & production teams couldn't share complete experimental context.
- Zymergen's disparate systems couldn't scale with their rapidly growing company.

KEY BENEFITS

Integration Innovation

Zymergen uses Benchling as a central platform to unite their custom tools. Proprietary algorithms, instruments, and niche software all integrate into Benchling.

Complete Experiment Histories

From every plasmid to every fermentation run, Zymergen's scientists view and share a complete, step-by-step data trail.

Organic Growth and Onboarding

Since starting with 10 Benchling users, Zymergen's deployment has grown to over 140 users, with ongoing onboarding handled completely internally.

“Benchling has been a model partner for us as we have grown our business. We would highly recommend Benchling to any growing biotechnology or life science firm.

Jed Dean, Cofounder

Benchling Solutions

Unifying custom tools on a central informatics platform

- Zymergen integrates custom sequence analysis algorithms with Benchling, eliminating data import/export.
- By integrating automated data capture across plate groups, Zymergen populates notebook entries with data in real-time.
- With centralized functional data, analysis, and records, the speed with which Zymergen generates decision-quality results is a competitive advantage.

Collaborating seamlessly across teams

- Zymergen scientists share and collaborate on the same up-to-date plasmids.
- Protocols and templatized Notebook entries enforce SOPs across the Zymergen organization.
- Production teams review upstream strain optimization teams' work to inform their own processes.

Scaling and optimizing processes over time

- Given how intuitive Benchling is, Zymergen has been able to handle all software training internally.
- Rich protocol versioning empowers Zymergen to optimize their processes by comparing results across conditions.
- As the company has scaled, more of their clients share classified data. Benchling's permissions features intelligently restrict data access.