



Enhancing Research Productivity by 30%

Arcturus Therapeutics is an industry leader in RNA medicines. The company's aim is to use its versatile, breakthrough RNA platform to develop novel therapies for rare diseases for which there are no adequate treatments. Arcturus collaborates with Janssen Pharmaceuticals and Ultragenyx Pharmaceutical.



PRIOR CHALLENGES

- 1 /** Lack of standardized molecular design tools hindered ability to collaborate.
- 2 /** Legacy ELN was cumbersome and led to low scientist usage. It took an average of 10 days for experimental data to make it into the system, if at all.
- 3 /** No standard data store and sequence repository scattered data and prevented institutional knowledge capture.

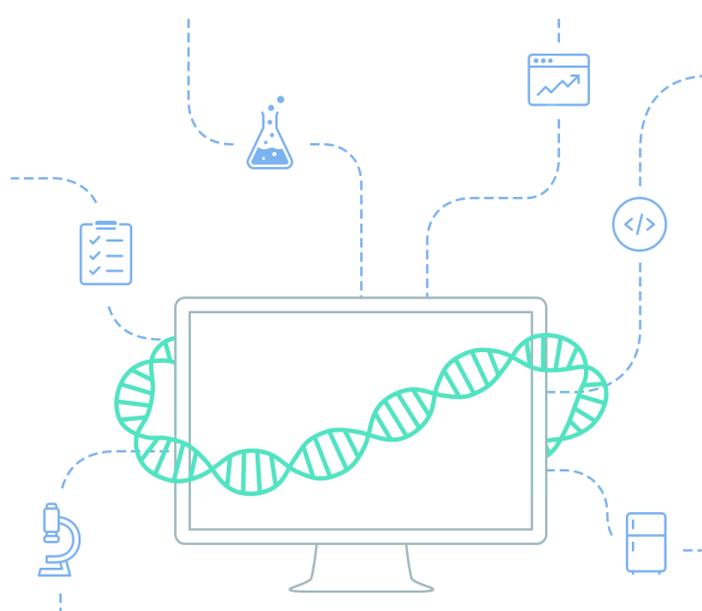
KEY BENEFITS

- 1 / Molecular Biology Collaboration**
With Benchling's unified cloud platform, Arcturus scientists design sequences together and share plasmids and annotations.
- 2 / Unprecedented Adoption**
Arcturus saw a dramatic increase in the speed of data entry. Experiments are recorded on the same day they occur, not 10 days later as they previously were.
- 3 / Productivity Boom**
With Benchling as the central source of truth for their organization, Arcturus has seen a 30% increase in research productivity.

“ I've never seen this level of utilization with any molecular biological suite or electronic lab notebook. People love using it. ”
Christian Cobaugh, Director of Drug Discovery

APPLICATIONS USED

-  **Notebook**
-  **Molecular Biology**



Ease of use naturally generates widespread adoption

- Arcturus transitioned from a legacy ELN with 20-30% user adoption, to 90% adoption with the Benchling Notebook.
- With its rich protocol repository and direct Molecular Biology integration, Arcturus uses the Notebook as an active tool in research, not only as a system of record after-the-fact.
- Time to data entry reduced from 10 days to 1 day.



Centralized data shortens research timelines

- With Benchling, scientists at Arcturus waste no time searching for data.
- Benchling has allowed scientists to reallocate more than 30% of their day-to-day work towards science, rather than note-taking and searching data.
- These productivity gains, coupled with the transparency of the Benchling system, mean that Arcturus generates decision-quality results faster.



Backing up decisions with data

- Over time, Arcturus has built up and refined their protocol repository, so they can continue to produce higher-quality results even faster.
- Arcturus's scientists trace the full experimental history behind every piece of data to re-create their experiments according to rigorous protocols.
- When deciding which candidates to advance, Arcturus places their confidence in the step-by-step experimental histories in Benchling.

