

Accelerate Your Cell Therapy Breakthroughs with the Benchling R&D Cloud

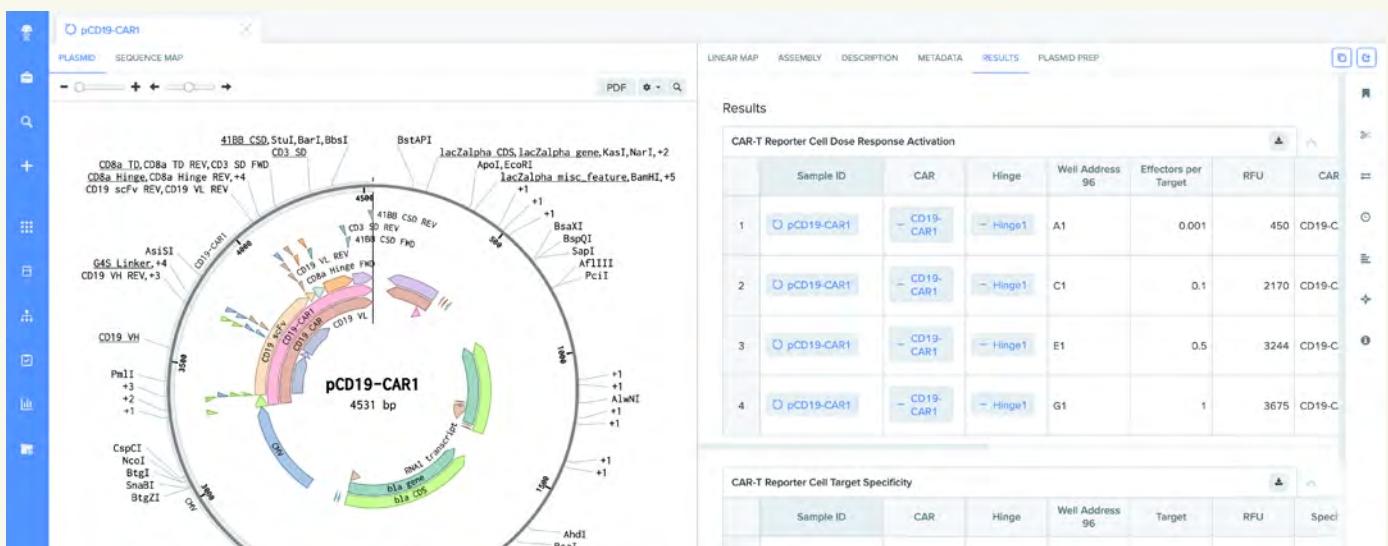


Benchling

Design, Develop, and Characterize Novel
Cellular Therapies on a Unified Digital Platform

A Modern Digital Solution for Next-Generation Cell Therapies

Cellular therapies hold enormous promise for addressing a wide range of unmet medical needs with a high degree of efficacy and specificity. Today, cell therapy candidates extend beyond stem cells and CAR-T cells, as scientists explore natural killer (NK) cells, macrophages, and induced pluripotent stem cells (iPSCs) to treat a variety of cancers and inflammatory diseases. Modern cell therapy R&D requires investigation of a complex variety of binder constructs, cell engineering methods, delivery vectors, and production processes. This necessitates a strong digital foundation to collect data on cell therapy candidates, maintain traceability across engineering processes, and generate actionable insights to accelerate time to milestones.



Cell Therapy R&D Requires Advanced, Purpose-Built Software

Cell therapy R&D teams need a modern, powerful informatics platform that can help efficiently advance their unique research pipeline. An optimal solution provides the following tangible benefits to R&D organizations:

Model the underlying science

Cell therapy research teams are evaluating a variety of autologous and allogeneic cell therapies. These teams manage a wide range of binders, constructs, and cell lines and capture experimental data with unique considerations. This demands software that can model the diverse range of samples used, and map the interrelationships among them.

Coordinate complex hand-offs

Cell therapy R&D requires complex coordination among specialized teams focused on binder selection, construct design, vector production, cell engineering, and analytical testing. Teams share experimental context often and in a timely manner. This requires software that can streamline collaboration and enable complete context transfer.

Track samples across processes

Cell therapies are inherently heterogeneous with significant variability in characteristics depending on donor source and cell engineering process used. R&D teams need to track and trace every component of a cell therapy across each step of a process. An optimal solution should provide full end-to-end traceability across the entire R&D lifecycle.

Provide insights for decision making

Scientists generate extensive data throughout every stage of the cell therapy R&D lifecycle and must regularly make critical optimization and selection decisions. To make optimal go/no-go decisions, teams need an informatics platform that connects every step of their workflow, aggregates data effortlessly, and provides key insights across programs.

“Benchling has helped a lot with our communication, because it’s one site for all of our key information. It holds all of our sequence information, and all of our experimental protocols.”



Tiffany Chen
Director of Discovery



Discover and Develop Breakthrough Cell Therapies on Benchling's Cell Therapy R&D Solution

Benchling's Cell Therapy R&D Solution is built on a modern cloud platform that adapts to the rapidly evolving needs of cell therapy. It ensures full traceability across sequences, cell lines, patient donors, and engineering processes so that critical insights can be derived throughout the R&D process. The solution is delivered by Benchling's scientifically-trained experts who bring best practices and configurations learned from working with over 150 cell therapy innovators. This helps companies of all sizes simplify their technology down to a single source of truth, with tailored capabilities to accelerate the design, development, and analysis of cell therapy products.

Traceability

2x

increase in confidence
in data quality and
completeness

Collaboration

95%

improvement in
cross-team data
transfer and collection

Insights

64%


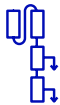





















decrease in time spent
compiling data for
analysis and reporting

Informatics

4.5x

typical ROI realized by
Benchling customers

A Complete Solution for Cell Therapy R&D

Ensure traceability		Share complete context		Access key insights													
																	
Lead Binder Selection	Full Construct Design	Cell Engineering	In Vitro Testing	In Vivo Testing													
<h2>Cell Therapy R&D Solution</h2> <table border="0"> <tr> <td> <p>Configurations</p> <ul style="list-style-type: none"> • Inventory Hierarchy • Registry Settings • Results Tables </td> <td> <p>Accelerators</p> <ul style="list-style-type: none"> • Notebook Templates • Insights Dashboards • Request Workflows </td> <td> <p>Customer Success</p> <ul style="list-style-type: none"> • Implementation • Training • Hypercare </td> </tr> </table>						<p>Configurations</p> <ul style="list-style-type: none"> • Inventory Hierarchy • Registry Settings • Results Tables 	<p>Accelerators</p> <ul style="list-style-type: none"> • Notebook Templates • Insights Dashboards • Request Workflows 	<p>Customer Success</p> <ul style="list-style-type: none"> • Implementation • Training • Hypercare 									
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<h2>Benchling R&D Cloud – Productivity Hub</h2> <table border="0"> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Notebook</td> <td>Molecular Biology</td> <td>Registry</td> <td>Inventory</td> <td>Workflows</td> <td>Insights</td> </tr> </table>												Notebook	Molecular Biology	Registry	Inventory	Workflows	Insights
																	
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Simplify Your Cell Therapy R&D with a Single Source of Truth

Manage end-to-end traceability of samples from donor material to engineered cell lines

Cell therapy products are complex, biological entities that have myriad metadata, precise relationships, and lineages that need to be tracked. This is incredibly difficult to track in spreadsheets or other siloed tools.

Benchling helps you build a library of all your samples, such as donor cell lines, plasmids, delivery vectors, reagents, and modified cell lines and link them with a fully configurable data model. This helps centralize all sample information and improves sample traceability.

Collaborate across binder selection, cell engineering, and analytical testing processes

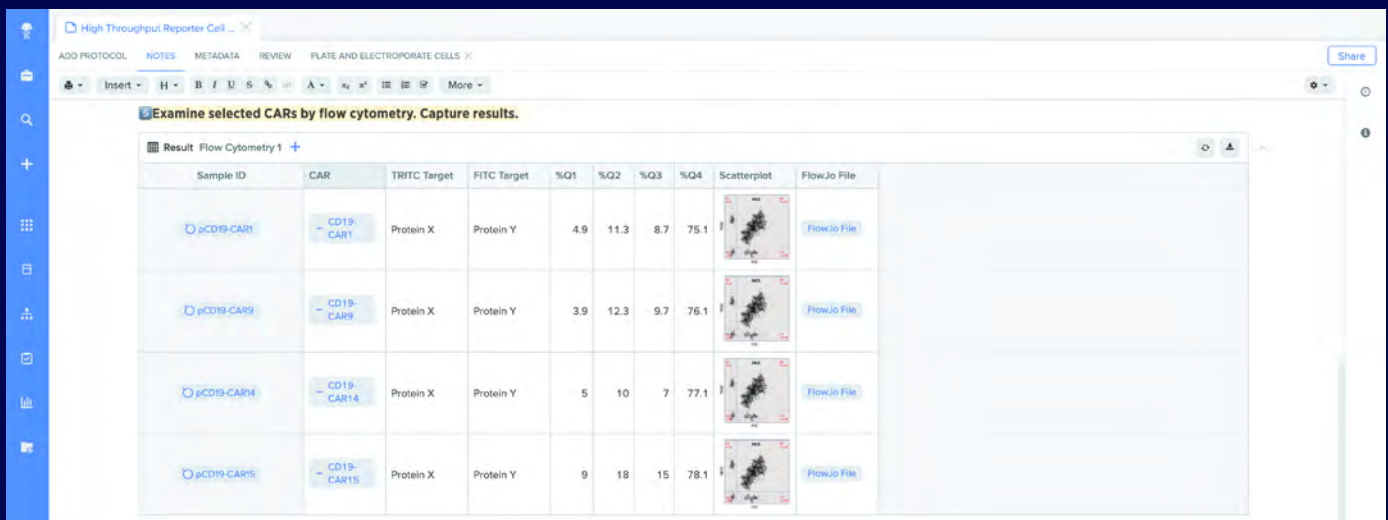
R&D teams are getting increasingly specialized and are often spread out across sites and geographies. This makes it even more difficult to collaborate and access each other's data.

Benchling streamlines collaboration across entire cell therapy R&D workstreams with a unified platform that helps maintain full context for each sample and experiment. Permissions and access controls further enable role-based collaboration. This helps scientists work more effectively with teammates (within and across teams).

Advance promising cell therapy lead candidates with greater visibility to all results

Drawing insights requires analyzing data from a multitude of sources: how cell therapy products were produced, tested, and used. These often are dispersed across many different records and is a persistent challenge to bring together for analysis.

Benchling helps standardize data and automates the capture of results into a central data warehouse. This allows easy aggregation of characterization results from diverse assays and improves decision support for critical go/no go decisions.



“Benchling gives us the ability to do long-term analysis of the data being produced by our research and development groups. It’s also been a really effective communication and collaboration tool for us.”



Jeanette Grant
Associate Director
of Project Management

The Benchling R&D Cloud is Trusted by Leading Cell Therapy R&D Companies



REGENERON



OUTPACE

Join over 200,000 scientists using Benchling to power life science R&D.

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