

## Building a Data Infrastructure for Next-Generation Cell Therapies

Adicet Bio is broadening the horizons of cell immunotherapy with gamma delta ( $\gamma\delta$ ) T-cells. Adicet employs these cells' unique properties to target solid tumor cancer. Though gamma delta T-cells make up a small fraction of blood cells, Adicet has developed a platform to activate and expand these cells for function in the clinic.



### PRIOR CHALLENGES

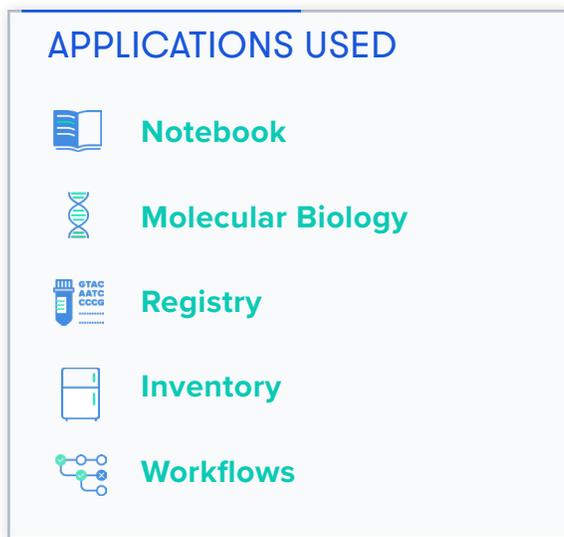
- 1 /** With data scattered across paper notebooks, employee computers, and public drives, Adicet Bio lacked a comprehensive data management infrastructure, which made it difficult to access and secure their data.
- 2 /** Adicet's previous data management platform struggled to provide varying levels of access permissions to data for the stratified teams across their various sites.
- 3 /** As Adicet rapidly scaled their staff's size and the complexity of their research and development process, they needed to be able to organize and standardize their data capture and record keeping.

### KEY BENEFITS

- 1 / Ensured data integrity for IND filing**  
Adicet Bio has secured its data's integrity by storing, centralizing, and compiling it within Benchling. This comprehensive data management prepares Adicet to efficiently file for IND.
- 2 / Flexible permissions structure**  
Adicet has two separate research sites, along with a team of contractors. With Benchling's data access features, Adicet can flexibly turn data and folder permissions on and off, depending on teams' needs.
- 3 / Company-wide organizational structure**  
Adicet standardizes data entry and organizes data with configurable templates and entry guidelines for Notebook and Registry. These best practices provide structure as the Adicet team scales.

“ Ultimately what Benchling is going to allow Adicet to do is to move rapidly into the clinic with lifesaving therapies, and it has set up the company for long-term success in the future. ”

**Jeanette Grant, Associate Director for Project Management, Adicet Bio**



## Ensuring data integrity for regulatory submissions

- After adopting Benchling, all of Adicet's data types are unified on a cohesive data layer. Entities and results are connected to context-rich Notebook entries via bio-intelligent links.
- Because Benchling applications are natively unified, an Adicet scientist can record entities in Notebook and the downstream teams can access it in Registry, creating a complete experimental history of the entity.
- With Benchling, Adicet now has a comprehensive data management structure that ensures data accuracy and validity as they file for IND and ultimately move therapies from the lab to the clinic.

## Configuring access permissions for a global organization

- Adicet Bio has fully functional sites in California and Israel. These two sites operate both independently and in conjunction, and Benchling has helped them establish unique permissions structures respective to the sites' needs.
- Benchling allows Adicet to have tiered access permissions: read-only, append and write, and administrate. They can now specify access level to data, projects, within Benchling's applications.
- Adicet now has the flexibility to provide consultants and other team members access to folders relevant to their work without having to share the entire Adicet database.

## Establishing an infrastructure to scale

- With Benchling, Adicet now has an organizational infrastructure that standardizes their project folder structure and data entry to document experimental history.
- Benchling enables Adicet to cultivate best practices with guidelines for Notebook entries and entities in Registry that decrease busywork, foster collaboration, and enable data querying.
- Adicet has tripled in size in the past year, and they are still growing. Adicet uses their data capture standards in Benchling to train new and existing employees, providing an organizational foundation that will fortify Adicet as they scale in process and team size.