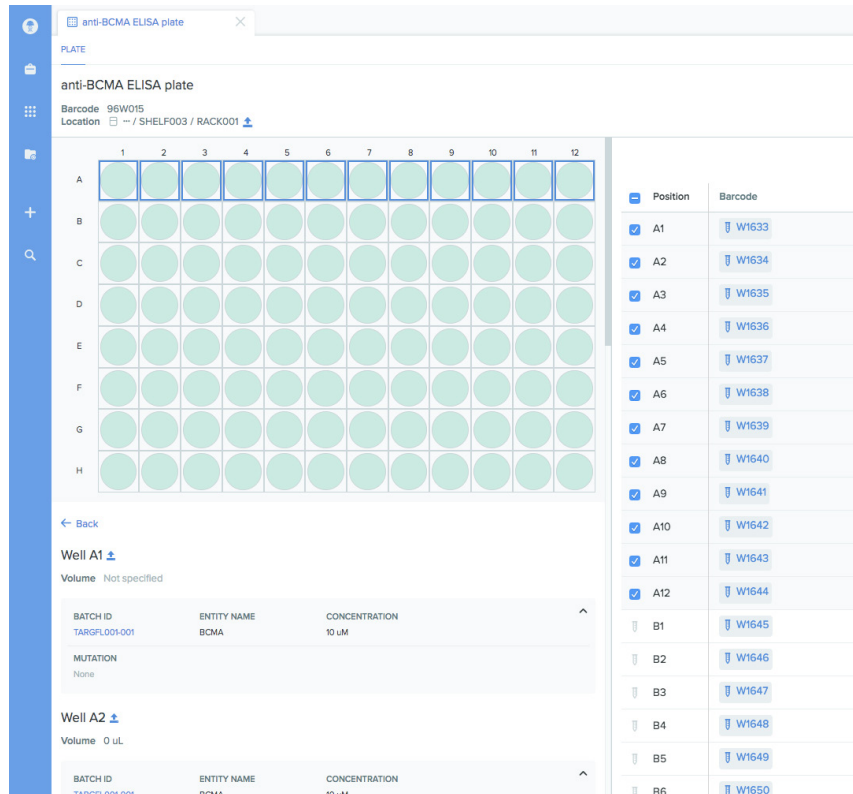


Add a Digital Layer to the Physical Lab

The benchwork of modern life science R&D involves innumerable well plates, cryovials, fridges, and other containers. When it comes to tracking the data and locations of these containers (and containers of containers), existing software fails to manage their complex interlinkages, and can't tie results data back to sample records.

Benchling Inventory expresses the interlinkages and data of any organization's samples and containers through point-and-click configuration, and it links results directly to the samples and containers that generated them. You never have to wonder where a particular tube is again, or what samples generated a certain result. A complete, digital picture of your lab is at your fingertips.



anti-BCMA ELISA plate

Barcode 96W015
Location -- / SHELF003 / RACK001

	1	2	3	4	5	6	7	8	9	10	11	12
A												
B												
C												
D												
E												
F												
G												
H												

Position	Barcode
<input checked="" type="checkbox"/> A1	W1633
<input checked="" type="checkbox"/> A2	W1634
<input checked="" type="checkbox"/> A3	W1635
<input checked="" type="checkbox"/> A4	W1636
<input checked="" type="checkbox"/> A5	W1637
<input checked="" type="checkbox"/> A6	W1638
<input checked="" type="checkbox"/> A7	W1639
<input checked="" type="checkbox"/> A8	W1640
<input checked="" type="checkbox"/> A9	W1641
<input checked="" type="checkbox"/> A10	W1642
<input checked="" type="checkbox"/> A11	W1643
<input checked="" type="checkbox"/> A12	W1644
<input type="checkbox"/> B1	W1645
<input type="checkbox"/> B2	W1646
<input type="checkbox"/> B3	W1647
<input type="checkbox"/> B4	W1648
<input type="checkbox"/> B5	W1649
<input type="checkbox"/> B6	W1650

Well A1

Volume: Not specified

BATCH ID	ENTITY NAME	CONCENTRATION
TARGPL001.001	BCMA	10 uM

MUTATION
None

Well A2

Volume: 0 uL

BATCH ID	ENTITY NAME	CONCENTRATION
TARGPL 001.001	BCMA	10 uM



Track down every sample used in an experiment

- For any experiment, see all the samples that were used, and all the samples that were produced.
- Pinpoint the current location of any sample.



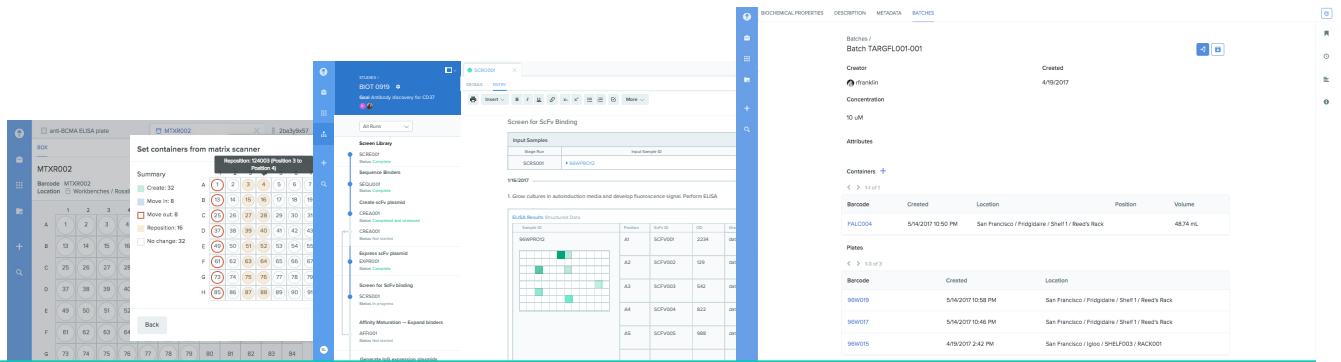
See every result a sample has produced

- For any sample, see every experiment where it was used.
- See all of the data that a particular sample has ever produced, alongside the experimental procedures that generated that data.



Trace from samples to upstream entities

- From individual containers of samples, trace their lineage through parent samples, up to the registered biological entities from which they are derived.
- Compare results produced by two samples with the same parent entities.



1 Configure containers with any dimensions

- In a point-and-click interface, create custom containers of any type, such as racks, fridges, and plates.
- Define a custom location hierarchy. For example, define “freezers” as containing “racks”, which might contain “plates” and “vials”.
- Structure custom containers to have any dimensions.

2 Express complex sample concentrations and transfers

- For containers holding more than one sample, define both the amount and the concentration of the samples that comprise it.
- Structure complex transfers between containers that automatically calculate new concentrations based on the concentrations of input samples.

3 Integrate instruments

- Benchling's open REST APIs ensure that any instrument can be swiftly integrated.
- Plate readers, smart fridges, barcode scanners, and printers are just some of the instruments our clients have integrated with Benchling Inventory.
- Automatically create new samples and update sample data. For example, integrate a plate reader to automatically generate new plates and fill them with samples.

4 Link inputs and outputs in Benchling Workflows and Requests

- For any workflow, give scientists complete context by designating particular samples that should be used.
- At the end of a workflow, pinpoint all every sample and container that was created, and view the results that each one produced.
- For any request, a requester can designate the specific samples that are to be used for a particular task.
- Following request fulfillment, output samples will be automatically communicated to the requester, with their locations.

