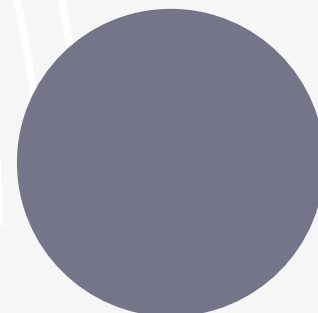




Generate accurate in vivo study data as part of your connected R&D



Generate accurate in vivo study data as part of your connected R&D

In vivo studies are an essential component of biopharmaceutical R&D. Effective management of in vivo programs is a key determinant in the ability to bring new products to market faster. Biopharmaceutical companies require an efficient way to collect data from their in vivo studies following strict protocols, as well as a way to ensure collaboration and data accessibility across R&D teams.



Benchling In Vivo provides biopharmaceutical companies with a modern software solution for in vivo study management. For in vivo R&D teams that have had to rely on disconnected spreadsheets, email, and point solutions, In Vivo offers a cloud native alternative that brings in vivo study data onto a centralized informatics platform. As part of the Benchling R&D Cloud, this solution helps biopharmaceutical companies connect their in vivo data and workflows to the rest of their R&D teams to advance new drugs into the clinic.

Manage in vivo studies with modern software designed for data capture, collaboration, and insights

Accelerate in vivo study startup

Quickly establish repeatable study designs with an intuitive user interface. Use randomization algorithms with multi-parameter exclusion to eliminate bias in animal selection.

Capture accurate, intelligent in-life study data

Automate repetitive tasks and reduce transcription errors with USB/Bluetooth instrument integrations. Stay on top of your studies with task templates, alerts, real-time graphs, and survival plots.

Drive collaboration across teams in the Benchling R&D Cloud

Coordinate sample transfers and registration for bioanalysis. Build complete data sets combining in vitro and in vivo data in the Benchling R&D Cloud.

The screenshot displays the Benchling software interface for an animal study. On the left is a navigation sidebar with icons for Overview, Animals, Cages, Groups, Workflow, Treatments, Attachments, Observations, Import, Export, and Settings. The main content area is titled 'Animals' and shows details for 'Cage 1 Animal 1' in an 'Enzalutamide study'. A notification banner indicates: 'Tumour vol. is greater than 100 mm³' and 'Weight has decreased by 10 % compared to the first measurement'. Below this are tabs for Overview, Observations, Samples, and Dosing. A table lists animal attributes:

Name	Animal 1
Tail	Green
Ear	1017AAF
Tag	VH7504
Donor	-
Group	■ Drug 1

On the right, a 'Tumor vol.' graph shows data points from 05 Jul to 13 Jul. Below the graph is a table of tumor volume measurements:

> 74.26 mm³	11 Jul 2021
> 65.36 mm³	9 Jul 2021
> 62.55 mm³	7 Jul 2021
> 60.46 mm³	5 Jul 2021
> 55.47 mm³	3 Jul 2021

Save time and improve accuracy with an enterprise-ready in vivo solution

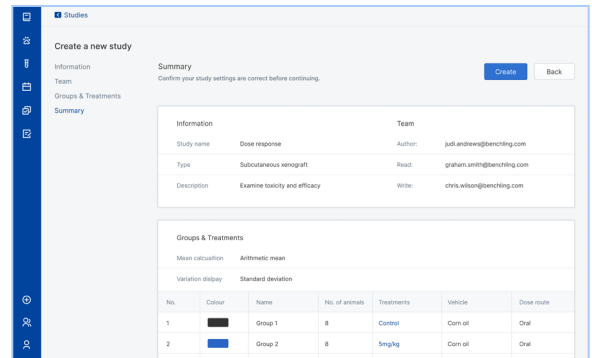
Study startup

Align to your lab's terminology with a configurable glossary.

Define the data structure of your study with reusable measurement presets.

Apply reusable task templates to save time and ensure consistency across studies.

Eliminate bias with multi-parameter randomization of animals into your study.



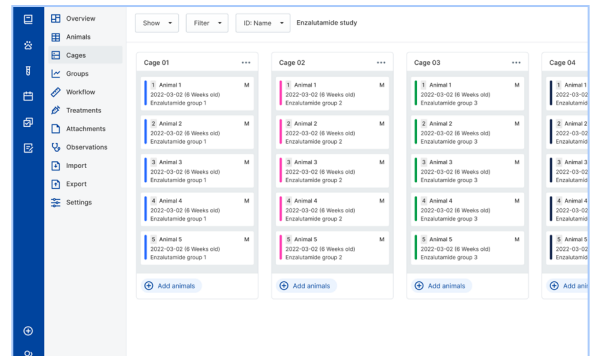
Animal and cage management

Print configurable cage cards for compliance and easy identification.

Track profiles of all study animals with measurements, samples, observations, alerts and more.

Use tasks and alerts to stay aligned with daily routines and study milestones.

Assign configurable alert thresholds for body weight loss or experimental endpoints, ensuring any potential animal welfare issues are identified at the earliest opportunity.



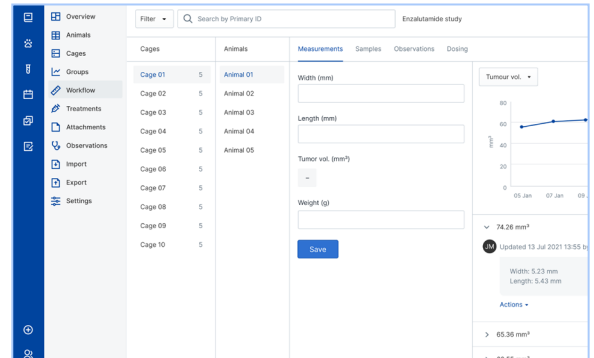
In vivo study data collection

Integrates and connects easily with balances, calipers, and RFID readers, thus minimizing transcription errors.

Automate sample ID assignment, enter configurable sample metrics, and visualize this information in a team wide database.

Use out of the box models for clinical observations, configure score sheets and severity scores specific to your team and study.

Automatically generate graphs and survival plots as measurements are taken to stay on top of study management.



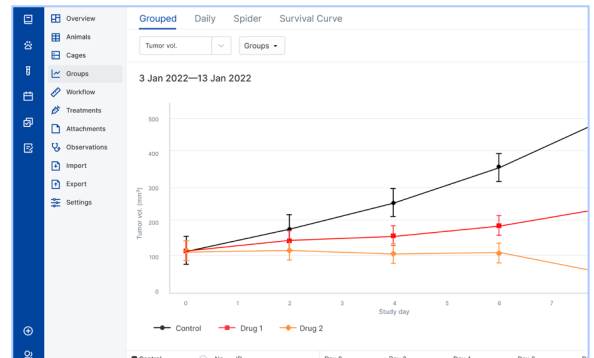
Centralized repository for in vivo study data

Access current and historical study data from a centralized study database.

Store study documentation across the team with embedded file management.

Easily import/export data with secure file-based transfer (XLSX, CSV), API, or export to GraphPad Prism (PZFX).

Control access to studies with granular user permissions.



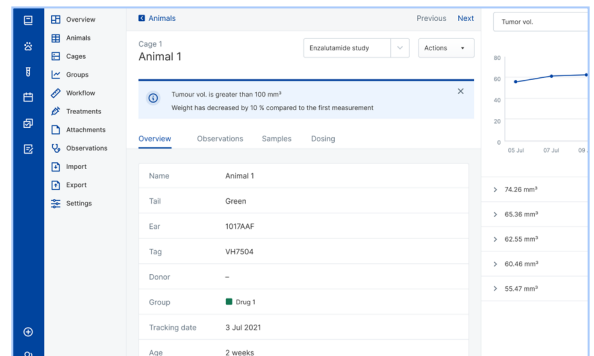
Connect in vivo data and samples to aligned R&D teams

Leverage pre-built integration between Benchling In Vivo and the Benchling R&D Cloud.

Transfer biospecimen samples, animals, and groups into Registry, with links back to In Vivo for full traceability.

Process bioanalytical workflows for downstream assays, transfers, and experiments.

Visualize and analyze in vivo results in Insights.



“Benchling In Vivo is a fantastic, high quality tool for managing in vivo experiments in the vivarium. The ways In Vivo allows me to customize a study significantly improves workflows.”

Quinn Walker
Senior Research Associate



The Benchling Difference

Benchling interlinks and tracks the entire R&D lifecycle — from project documentation and data acquisition to sequence design, sample management, process management, and reporting. By standardizing and centralizing R&D data and workflows on a single platform, Benchling helps forward-thinking companies accelerate their digital lab transformation to enable better, faster decision-making.

Built for Complex Science

Purpose-built to support the development of anything from biologics and biomaterials to strains and small molecules, Benchling interlinks your sequences, samples, and experiment results to ensure full traceability.

Adapts to Your Process

Built on top of a secure, high-performance cloud infrastructure, Benchling supports evolving scientific workflows and integrates with lab instruments and other software systems to help unify your R&D data ecosystem.

Intuitive and Easy to Use

Benchling's modern user interface — with natively interconnected notebook, sample registration, inventory management, and workflow design applications — means your team can work better and faster, together.

Enables Data-Driven Decisions

Centralized, standardized data capture and storage help ensure the integrity of your data, while integrated analytics tools help you derive the insights you need to make better scientific and operational decisions.

Benchling Bioresearch

Plan, capture, and run experiments end-to-end

Benchling Bioprocess

Develop new processes quickly and execute at scale

Benchling Connect

Automate and manage R&D data across instruments and systems

Benchling InVivo

Run accurate studies, faster

Learn how Benchling can accelerate the pace of your R&D innovation.
[Visit benchling.com](https://www.benchling.com)