

What Are Mouse Clinical Trials?

Mouse Clinical Trials (MCTs) are preclinical studies designed to reflect the complexity of human clinical trials. Using patient-derived xenograft (PDX) models implanted in immunodeficient mice, MCTs allow researchers to:

- Assess efficacy across diverse tumor types
- Evaluate biomarkers and stratify responders vs. non-responders
- Investigate resistance mechanisms and optimize drug combinations

Our MCTs offer high predictive value, enabling oncology researchers to de-risk drug development and increase confidence in clinical trial planning.



Why Choose Champions Oncology?

Champions Oncology delivers the most clinically relevant mouse clinical trials (MCTs) in the industry, helping oncology drug developers confidently advance their therapies with data that reflects real patient biology. With over 1,500 low-passage PDX models, more than 50% derived from metastatic lesions and over 1,000 from patients pretreated with modern cancer therapies, we offer a living biobank that mirrors the complexity of human cancer. Our MCTs combine scientific rigor, translational relevance, and responsive partnership to help you move forward faster and smarter.



Real-World Relevance

Over 50% of our PDX models come from metastatic lesions, reflecting the patient populations most in need of new therapies.



Treatment Experienced Models

Our biobank includes more than 1,000 PDX models from patients who received next-generation cancer treatments, giving your data clinical meaning.



Rare and Difficult-to-Source Tumors

Champions maintains one of the industry's most comprehensive banks of hematological, pediatric, and rare cancers.

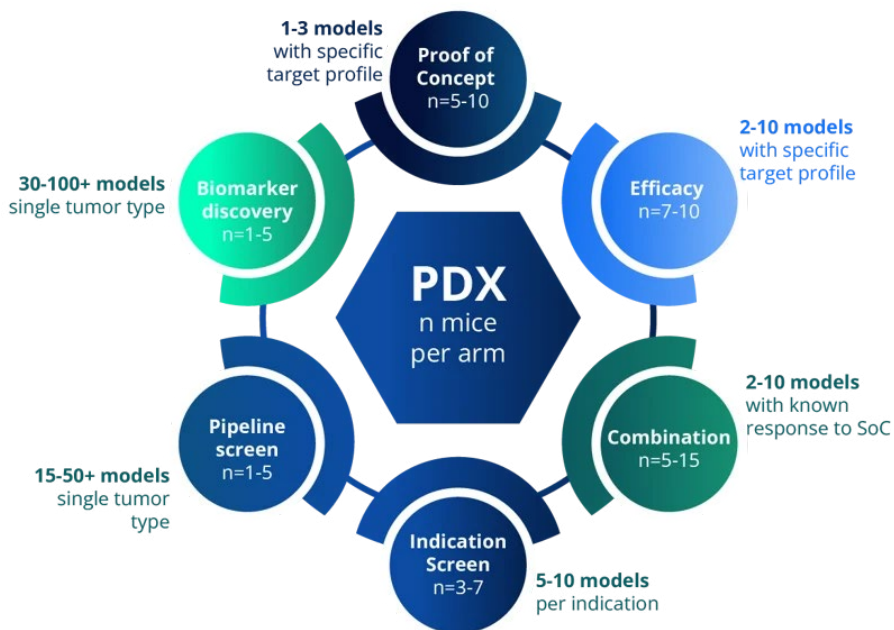


Tailored, End-to-End Support

From model selection to study design and final analysis, our in vivo oncology experts partner with you to ensure every study is aligned with your objectives.

Flexible Study Design for Every Phase

Whether you're screening a large panel or validating a lead asset, our MCT designs are customizable to your study goals. The figure below outlines the typical cohort structures used for different types of mouse clinical trials.



How It Works: MCT Execution in 5 Steps

1. Study Design

We use power analysis and historical data to determine optimal group sizes based on your primary endpoint (TGI, survival, etc.).

2. Model Selection

Models are selected based on tumor type, molecular features, and treatment history to align with your mechanism of action and patient profile.

3. Trial Execution

Our team handles animal handling, implantation, treatment, and tumor monitoring in AAALAC-accredited facilities.

4. Data Collection & Analysis

Using tools like Lumin™ and multi-omics pipelines, we provide curated datasets with responder classification, biomarker identification, and mechanistic insights.

5. Results & Reporting

We deliver both traditional reports and dynamic, interactive data visualizations to help you explore key findings.



Let's Design the Right MCT for You

Ready to advance your oncology program with confidence? Connect with a Champions Oncology MCT expert to discuss your goals, target indications, and study parameters.