



GEMs Management

SOLUTIONS TO
COMPLEX CHALLENGES

GEMs Management

Developing an effective GEMs Management program requires a high-level of expertise and management. Without proper planning and insights, breeding programs can quickly develop into massive resource-draining endeavors.

At Taconic Biosciences, we work collaboratively with our clients. When it comes to breeding programs, our PhD scientists take the time to understand your research goals and harness Taconic's vast resources to help you achieve them. Leveraging Taconic's unmatched model repositories, advanced custom model generation capabilities, and flexible breeding solutions, our experts will craft a custom plan to produce the cohorts you need to attain your research goals.

Our philosophy and business model are based on more than 60 years of experience. Drawing on our collaborative relationships with leaders in pharma, biotech, academia and government, we have developed innovative technologies and efficient processes that will accelerate your research, contain costs, and minimize risks. Taconic GEMs Management, more than contract breeding, total GEMs portfolio management.

PRIMARY SERVICES

- Derivation
- Breeding Solutions
- Cryopreservation
- Rapid Expansion

PROVEN QUALITY, UNMATCHED EXPERTISE

Taconic's experts have facilitated more than 10,000 projects. Our knowledgeable and experienced PhD scientists understand the challenges you face and are equipped to deliver a custom solution that accommodates your timeline and budget.

THE TACONIC APPROACH

Taconic's unique approach to GEMs Management distinguishes us in the industry.

Our Portfolio & Project Management strategy maximizes resources, improves efficiency, and produces results. A dedicated Scientific Program Manager partners with you to understand your goals and develops a customized breeding strategy based on your specific project requirements. This ensures efficient project management and continuous progress toward your goals.

Your progress can be tracked 24/7 using our eTaconic portal, and our scientists are available to you for consultation on custom model generation, embryology, genetics and veterinary sciences.

PORTFOLIO & PROJECT MANAGEMENT

Taconic's comprehensive and disciplined Portfolio & Project Management assures delivery of your cohorts on time and on budget.

- **Partnership:** Partnering with you is the cornerstone of Taconic's successful Portfolio & Project Management. Your program manager will work with you to define the scope of your project, develop a breeding plan, define a timeline, and establish a budget.
- **Transparency:** Your program manager will explain the methods and resources integral to your plan. You will know the possible risks and mitigation strategies before your project begins.

TO ORDER

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GEMs Management

- **Teamwork:** Your dedicated team consists of your scientific program manager, a project manager, and an array of subject matter experts.
- **Communication:** Your team keeps you informed through a customized communication plan.
- **Efficiency:** Regular financial and production reports allow us to suggest modifications that will optimize efficiency and contain costs. Based on our extensive experience, we have data that allow us to create accurate cost projections.

FLEXIBLE CAPABILITIES AND SERVICES

The range of services Taconic offers allows our team to create a customized breeding plan that addresses your specific needs and goals.

- **Animal Housing**
 - Multiple housing options to accommodate your timeline and budget, meet the health requirements of your research, and quickly import animals.
- **Molecular Analysis**
 - Comprehensive platform of genotyping and genetic analysis.
 - Exclusive partnership with Transnetyx, the worldwide leader in rodent genotyping services.
- **Embryology and Cryopreservation**
 - Rapid Expansion capabilities on multiple mouse and rat strains.
 - Standard derivations to reset a colony's health status or recover a genetically engineered line from cryopreservation.
 - Embryo and sperm cryopreservation in mice; embryo cryo available in rats.
- **Surgical Models and Services**
 - Telemetry implants for monitoring neurological data, temperature and activity in laboratory rodents.
 - Portfolio of surgically altered rodent models that represent human disease.
 - Catheterization and cannulations that allow repeated dosing and/or sampling.
 - Tissue collection from any Taconic model or your model being bred at a Taconic facility.
- **Microbiome Products and Services**
 - Germ-Free C57BL/6NTac and Swiss Webster mice.
 - Microbiome Association Studies.
- **Health Monitoring**
 - International Health Monitoring System™ that surpasses the guidelines of FELASA.
 - Select from five distinct health profiles for your project.
 - Web-based reporting for convenient 24/7 access.

SUBJECT MATTER EXPERTS

Our PhD scientists have real-world experience in breeding and the use of animal models in research. They specialize in the generation and breeding of genetically engineered mice and rats.

- **Scientific Program Manager:** Your Scientific Program Manager will be your scientific contact, responsible for ensuring your project design is positioned to reach breeding goals.
- **Project Manager:** Your dedicated project manager has been trained to have the skills and expertise to manage your project effectively. They will serve as your point of contact, responsible for monitoring, change control, and issue elevation on your project.
- **Genetic Sciences:** Your team of experienced scientists will review your breeding design to ensure accuracy and audit your project on a predetermined schedule.

ELECTRONIC DATA MANAGEMENT

Taconic's secure portal, eTaconic, enables you to:

- Access project design information, activity reports, and colony inventory data.
- Access program and project specific reports in a variety of formats.
- Access current and historical animal production and inventory data in real time.

Partner with Taconic to design, develop, and breed high-quality humanized, CRISPR, and genetically engineered mouse and rat models. Call us today to discuss your goals with our scientists.

Visit: [Taconic.com/Breeding](https://www.taconic.com/Breeding)



DISCUSS YOUR NEEDS

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Take Your Research Further



GEMS DESIGN

Taconic Biosciences GEMs Design empowers our clients to develop research models specifically suited to the unique needs of their discovery and development studies or therapeutic programs.

- Gene Inactivation
- Gene Mutation or Replacement
- CRISPR Gene Editing
- Transgene Expression
- miRNA Expression
- Cohort Production Packages

PRECISION RESEARCH MODELS

Research organizations demand precision tools that better reflect human physiology. Taconic Biosciences leads the field delivering innovative solutions to meet these continually evolving needs. Our core competencies include the delivery of complex strategies that both integrate human genetic sequences and engraft human cells and tissues into custom mouse and rat models.

- Human Gene Replacement
- Human Cell and Tissue Engraftment

GEMS MANAGEMENT

Taconic's fully integrated GEMs Management brings innovative models from design to study-ready cohorts with unprecedented speed and transparency.

- Embryology
- Rapid Colony Expansion
- Contract Breeding
- Surgical Services
- Tissue Collection
- Genotyping and Molecular Analysis
- Microbiome and Germ-Free Research Models and Services

CHOOSE TACONIC

For more than 60 years, Taconic has anticipated the needs of the scientific community to deliver models and services that meet the diverse needs of biomedical and biopharmaceutical researchers.

Today that forward thinking and commitment to working collaboratively has resulted in a client-centric environment infused with a knowledge bank that allows you to select the optimum model for your study based on informed insight into the generation of genetically engineered mouse and rat models.

YOUR COLLABORATIVE PARTNER

As a full-service biosciences company, Taconic can help you acquire, test, develop, breed, cryopreserve, prepare, and distribute highly relevant research lines worldwide. Whether you require custom genetically engineered, cell or tissue engrafted models or traditional models, Taconic's scientists will partner with you to rapidly and efficiently deliver the highest quality models.

TALK TO A SCIENTIST

Our scientific teams are happy to meet and talk with you about the most efficient way to achieve your study goals. Working in partnership with clients the world over, our scientific teams offer expert advice that can help you speed up your research and reduce your overall costs.

TALK TO A REPRESENTATIVE

For general information, you can talk to a member of our customer service team. Our customer service team is here to help you make the right decisions and get the models you need fast. Contact us at info@taconic.com

VISIT TACONIC.COM

For more information on the entire Taconic portfolio of products and services designed to help further your research, visit Taconic.com

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