Model Generation Capabilities to Match Any Project

The Taconic-Cyagen Academic Model Generation Alliance (The Alliance) leverages Cyagen's complete catalog of methodologies for generating novel mouse and rat models so that your research is not limited by available technologies. Whether your studies require the modification of an existing model or *de novo* generation of a complex or humanized model, The Alliance can match each project with the best methodology for success.

Model Generation Benefits of The Alliance

Progressive Approach to Customer Service & Implementation

FAST PROJECT SCOPING
With AI powered project strategies available as quickly as two business days, The Alliance minimizes the delay to having a quote and strategy in hand.

COST EFFECTIVE, GUARANTEED MODEL GENERATION
The Alliance provides researchers with the value needed to maximize research budgets while still delivering the critical models needed to facilitate discovery, with the added confidence of a guaranteed project deliverable.

COMPREHENSIVE CAPABILITIES
The Alliance provides your research with the most comprehensive toolkit available: CRISPR, transgenic, PiggyBac, ESC based homologous recombination, and more; the only limit is the scope of your study.

FLEXIBLE DELIVERY OPTIONS
With a variety of delivery and rederivation options, The Alliance is equipped to rapidly deliver your model to your vivarium.*

ACCESS TO ACCELERATED TIMELINES*
With the ability to rapidly generate age matched cohorts of 20-40+ animals at any Taconic health standard, The Alliance can drastically reduce time spent on traditional breeding.

*Rederived animals are generated at an Excluded Flora (EF), Taconic health standard which is accepted without quarantine by most institutions. Please consult with your facility veterinarian to ensure the best method of delivery.

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Alliance Model Generation Capabilities

Leveraging the Best Technology for Each Project

KNOCKOUTS (KO)
Constitutive knockouts can be quickly generated utilizing Cyagen's TurboKnockout® embryonic stem cell (ESC) based technology providing ESC based models at timelines comparable to CRISPR based models. CRISPR is also available, with AI-based bioinformatic analysis driving identification of the optimal region to target.

CONDITIONAL KNOCKOUTS AND KNOCK-INS (cKO/cKI)
Conditional knockouts and knock-ins can also be quickly generated using TurboKnockout®. With a germline guarantee and self-deleting selection cassette, TurboKnockout® accelerates traditional ESC based model generation.

POINT MUTATION KNOCK-INS
Point mutations can be quickly generated via CRISPR or Cyagen's accelerated ESC based method, TurboKnockout®, enabling more complex point mutations and/or genetic modifications.

LARGE-FRAGMENT KNOCK-INS (LFKI)
Rosa26 and other safe harbor loci can be targeted for large fragment knock-ins using a variety of methodologies to ensure your studies are not limited by technology or capability. With the ability to perform LFKI at any locus, the only limit to your studies is your ingenuity.

TRANSGENICS
With the capability to generate both traditional and PiggyBac-based transgenics, The Alliance can provide your research with cost-effective transgenic models with the ability to avoid gene silencing with single-copy-per-integration-site, and no loss of transgene sequence when using PiggyBac.

World-renowned for its consultative approach to complex animal model generation, Taconic Biosciences partners with researchers to provide the best solutions for the creation and supply of novel genetically engineered models by leveraging the most comprehensive, fully licensed gene modification toolkit in the industry. Cyagen Biosciences utilizes a highly efficient process, including its proprietary AI technology, to design and deliver novel genetically engineered models with precision and competitive pricing. As partners, Taconic and Cyagen leverage the power of our complementary approaches to redefine the model generation customer experience by bringing the best and most competitive solutions to the market.

There are no limits to your imagination and success—time, funding, or risk. With access to Taconic's expertise, quality, and flexibility, now combined with Cyagen's speed, efficiency, and economical business model, our team will guide you through the process to the best technical solution, service level, and deliverable for your study.

Partner With Us for Your Next Project

Want to learn how The Alliance can get to work on your research? Request a consultation with a Taconic Model Design Specialist today and let our problem-solving approach go to work for you. Tell us about your research and goals, timeline, and budget, and let our experts partner with you on your next study.

Get in touch for more information about our products and services.
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Learn more at: **taconic.com/model-generation-alliance**