

CRISPR Part 2: Conditional Knockouts

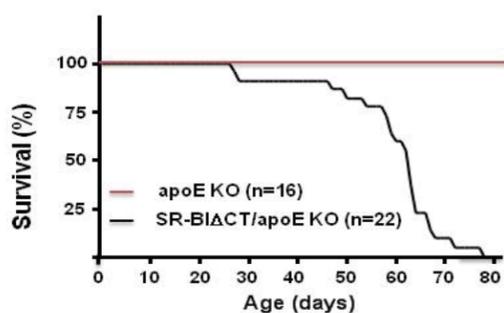


Speed, efficiency, and reduced costs all while minding the 3 R's. At [ingenious](#) we have the technology to generate conditional knockouts of all size ranges and varying levels of complexity. Whether you are looking to include reporter expression before or after the recombination event, floxing a large region, or a difficult region, we have the experience to deliver. With CRISPR gene

editing we have continued to develop our conditional knockout models and now provide germline confirmed F1 mice in as little as 6 months. No mosaicism. No uncertainty. Start your breeding and experiments with a mouse of known quality, backed by [ingenious](#)' guarantee of germline transmission.

Conditional Knockout Mouse Models

Publications



Congratulations to our client Dr. Olivier Kocher of Beth Israel Deaconess Medical Center on his recent publication in *American Journal of Physiology*. [ingenious](#) created a point mutation mouse model of the HDL receptor SR-BI, which results in an early stop signal. The mouse model helped to provide new insights as to the role of this receptor in steroidogenic cells and

how the genetic modification affects hypercholesterolemia, anemia, reticulocytosis, splenomegaly, thrombocytopenia, and female infertility. In addition, crossing this mouse model with apoE knockout mice resulted in a new animal model for studying coronary heart disease. [Check it out.](#)

Testimonials



"We recently generated a conditional knockout mouse model using iTL (inGenious Targeting Laboratory). We chose iTL based on time, cost, recommendation and location. We were pleased with the technical help we received in identifying the scope of the project. As well, information and services provided by the project manager were timely and extremely helpful and we were very impressed with the customer service. We were promptly updated throughout the project and upon completion, information was provided to help with genotyping and continuation of the project. We are very happy with the prompt services provided by iTL and would happily recommend them to our colleagues."

- Jody Groenendyk, PhD
University of Alberta

Did You Know...



... glial cells in the brain play a critical role in appetite control? While glial cells were previously believed to just play a supportive role for neurons, research in recent years have implicated glial cells in important brain functions. In a study of mice, researchers at MIT and Singapore Bioimaging Consortium found that activating glial cells stimulates overeating, while suppressing glial cells thus suppresses appetite. These findings may offer a new target for treatment of obesity and other appetite-related disorders. Read more [here](#).

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