

GEAM Services

Services currently provided by the Genome Editing and Animal Models Shared

Resource include:

- CRISPR/Cas9 design, consultation, and synthesis for mice, rats, and cell lines
- Generation of transgenic mice and rats by pronuclear microinjection
- Generation of mouse models from embryonic stem (ES) cells
- Cryopreservation of mouse and rat embryos and sperm
- Rederivation of rodent model strains
- Other molecular biology and animal services related to transgenic and genome editing technology
- [Genome edited mice, rats, and pigs](#)
- [Genome edited cell lines](#)
- [High-throughput genotyping of genome-edited cell lines](#)
- [Genome-wide CRISPR screening](#)
- [Development of customized, advanced CRISPR applications](#)
- [Cas9-mediated target capture for long read sequencing](#)
- Create clonally-edited cell lines
- Cell cultures

We carefully discuss investigator needs to ensure the customized projects are ideally suited for the investigator's needs. We have extensive expertise developing CRISPR/Cas9, generating new CRISPR/Cas9 models, and embryo manipulation of many mouse and rat strains.

Learn more about the [Genome Editing Facility](#) and [Animal Models Facility](#).