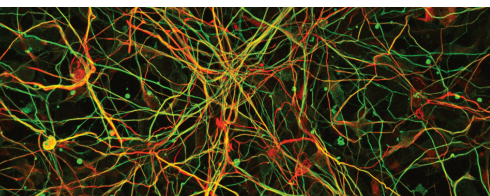
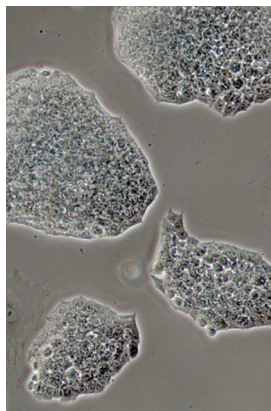
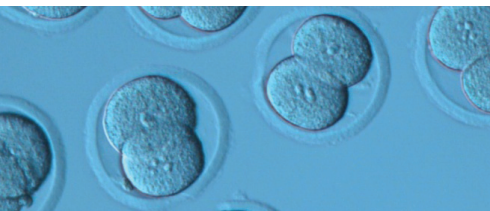


KU CANCER CENTER SHARED RESOURCES



TRANSGENIC & GENE TARGETING SHARED RESOURCE

The Transgenic and Gene Targeting shared resource (TGTSR) provides centralized technical services for the production of genetically engineered rodents and cell models for KU Cancer Center researchers across consortium sites. The TGTSR provides comprehensive services for genetic manipulation of the mouse and cell genomes. The TGTSR uses front-end technologies, including genome editing using CRISPR/Cas9 tools, and additional support services.

WHY IS THIS IMPORTANT TO YOUR RESEARCH?

The complex etiology of tumor development and physiological responses to cancer and cancer therapeutics require the use of animal models. As such, genetically altered models are important tools for the researchers at KU Cancer Center. The production and analysis of such models ultimately leads to better understanding of biological processes of tumorigenesis, as well as models for diagnostic testing and cancer treatment.

SERVICES

The TGTSR has five major services:

1. Provide technical expertise in experimental design for KU Cancer Center Projects.
2. Provide technical support for *in vivo* genetic alteration of mice.
3. Provide technical support for genetic manipulation of cell models.
4. Provide support for strain development and maintenance, including cryopreservation and rederivation.
5. Educate KU Cancer Center researchers and trainees on new and emerging technologies for genetically altered animal models and manipulation of cell models.

LOCATION

The University of Kansas Medical Center campus,
Hemenway Life Sciences and Innovation Center,
room G025

LEARN MORE

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Was your research supported by KU Cancer Center's NCI Cancer Center Support Grant? If so, please use the following statement in all of your published materials: *Research reported in this publication was supported by the National Cancer Institute Cancer Center Support Grant P30 CA168524 and used the [name of the CCSG Shared Resource(s), if applicable.]*