

## Transgenic and Gene-Targeting Facility

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The Transgenic and Gene-Targeting Facility at the University of Kansas Medical Center is located in the newly constructed Kansas Life Sciences Innovation Center on the KUMC campus. The mission of the Transgenic Facility is to provide services to KUMC investigators and the surrounding research community for the generation of transgenic and genetically modified mouse models.

The facility is equipped to offer a full range of services, including generation of transgenic mice via pronuclear injection, generation of chimeric mice via embryonic stem cell injection and gene targeting of embryonic stem cells. A range of support services are also offered, including cryopreservation of sperm, embryos and oocytes, and assisted reproductive techniques such as rederivation and in vitro fertilization.

The facility also offers molecular biology services including PCR genotyping and purification of plasmid and BAC DNA for microinjection. Our operations are centralized with an SPF mouse facility in the KLSIC building, with dedicated wet lab space for embryo manipulations and cryogenics, cell culture space and a molecular biology lab.

The Scientific and Technical Directors at the facility have many years of experience in the generation and analysis of transgenic mouse models and work closely with investigators throughout the design and execution phases of the transgenic experiments. We have performed services for investigators at University of Missouri - Kansas City, Children's Mercy Hospital, University of Kansas in Lawrence, Kansas City University of Medicine and Biosciences, and Kansas State University. We look forward to working with you on your next project!