

UMMS TRANSGENIC ANIMAL MODELING CORE (TAMC)

RAT GENOME EDITING

THE FACILITY WILL PERFORM:

1. Microinjection into _____ (strain name) rat embryos.
2. Reagents to be injected _____ (DNA/RNA/protein/BAC etc).
3. A minimum of three embryo transfers into pseudo-pregnant recipients.
4. Care of the rats through pregnancy, birthing and weaning.

The embryo transfers into pseudopregnant recipients should result in approximately 20-25 births. Once a microinjection experiment is underway, the minimum time for production of founder rats will be approximately ten weeks (four weeks for injections, three weeks for gestation, and three weeks for weaning). The rats will then be available for transport to the investigator who will have full responsibility for further breeding, genetic analysis, observation, etc.

Not all DNA constructs microinjected into rat embryos will produce transgenic founder animals, as the biological effects of the expression of some transgenes may prove deleterious. Furthermore, not all nuclease RNA or DNA will yield the desired mutations.. Therefore, the UMMS Transgenic Animal Modeling Core can only guarantee the minimum number of transfers of injected embryos into pseudopregnant recipients (3), and the number of rats born (approx. 20-25).

***Charges for transgenic services as described above = \$6,700 per construct
(Does not include animal purchase and husbandry costs)***

P.I. Name _____
Department _____
Speedtype number _____
IACUC Docket Number _____
IBC Docket number _____

Date Received _____
Construct name(s) _____

TOTAL CHARGES \$ _____

X _____
UMMS INVESTIGATOR / date

X _____
UMMS TAMC / date