

UMMS TRANSGENIC ANIMAL MODELING CORE (TAMC)

MOUSE GENOME EDITING

THE FACILITY WILL PERFORM:

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

Sufficient numbers of microinjected zygotes will be transferred into pseudo-pregnant recipients to yield approximately 35-40 births. Approximately 10-20% of the resulting mice will bear the transgene or nuclease modification.

Once a microinjection experiment is underway, the minimum time for production of founder mice will be approximately ten weeks (four weeks for injections, three weeks for gestation, three weeks for weaning). The mice will be transferred to the Investigator at that time, and the Investigator will have full responsibility for further breeding, genetic analysis, observation, etc.

Not all constructs microinjected into mouse embryos will produce genetically modified founder animals, as the biologic effects of the mutation 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 pseudo-pregnant recipients (8), and the number of mice born (approximately 35-40).

Charges for pronuclear injection services as described above = \$7,000 per construct

P.I. Name _____

Department _____

Speedtype number _____

IACUC Docket Number _____

IBC Docket Number _____

Date Received _____

ES Clone name(s) _____

TOTAL CHARGES \$ _____

X _____

UMMS INVESTIGATOR / date

X _____

UMMS TAMC / date