

UMMS TRANSGENIC ANIMAL MODELING CORE (TAMC)

MOUSE TETRAPLOID INJECTION

THE FACILITY WILL PERFORM:

1. Microinjection of targeted embryonic stem (ES) cells into tetraploid mouse embryos.
2. Implantation of 15-20 injected embryos into pseudo-pregnant recipients.
3. Care of the resulting chimeric mice through pregnancy, birthing and weaning.

Transfer of 15-20 injected tetraploid morulae or blastocysts into pseudopregnant recipients will typically result in the generation of approximately 2-4 mice.

Once a tetraploid injection experiment is underway, the minimum time for production of resultant mice will be approximately nine weeks (three weeks for injections, three weeks gestation, three weeks weaning). However, younger mice can be made available at birth (6 weeks) or during the natal period (<6 weeks) for analysis. Once the mice are transferred the Investigator will have full responsibility for dissection, analysis, breeding, observation, etc.

Not all ES cells microinjected into tetraploid embryos will produce ES cell-derived embryos, nor do all the embryos survive the effects of tetraploid fusion. Therefore the UMMS Transgenic Animal Modeling Core can only guarantee the number of transferred injected embryos (15-20) into pseudopregnant recipients.

If you are providing the targeted ES cells (i.e. the targeting was not performed by the Core), please attach the ES Cell information form. Note that these ES cells must meet all UMMS IACUC requirements and be approved for Core usage by the Core Director.

Charges for blastocyst injection as described above = \$5,500 per ES cell line.

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