**Pronuclear Microinjection**

**Prior to injection**

- Client must complete both the ‘Request for Genetic modification’ and ‘Biological Risk Assessment’ forms and both must be approved before work can commence.
- A short description of the transgene to be injected and the experimental rational must be given to the Transgenic Mouse Facility (TMF) **including** a test genotyping PCR performed on ‘spiked’ genomic DNA.
- Client must provide gel purified transgene with an agarose gel image showing the linearized transgene.
- Payment must be received before work can commence on the project.

**During microinjection**

- The TMF will generate, inject and transfer at least 400 embryos or will stop injections after confirmation of 5 live transgene positive (founder) mice.
- Tissue samples from potential founder animals will be taken by the TMF at 2-4 weeks of age.
- The TMF will set up breeding pairs to assess the transmission competency of the founder mice.
- The new transgenic mouse strain will then be transferred to BMSU

**After microinjection**

- The TMF will be available for advice on animal husbandry etc.
- The TMF is not responsible for unsuccessful transgenic experiments. Unfortunately some transgenes are toxic and therefore viable transgene positive mice may never be obtained. Early stage toxicity will be tested for but it is not possible to assess the effects of transgene integration past the blastocyst stage.