

# ES Cell Microinjections

This form may be used to request injection of mESCs into blastocysts.

Keywords: [microinjection](#) [mESC](#) [blastocyst](#) [KOMP](#) [EUComm](#)


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Another popular method of generating transgenic mice is by injecting Embryonic Stem (ES) cells into an embryo. This service enables investigators to generate chimeric mice from genetically modified mESCs and is an essential step in the generation of precisely modified alleles (conditional, knock-in, or null alleles). Only ES cells that have undergone homologous recombination and have been rigorously screened for the desired genotype are cultured and then injected into the cavity of a 3.5 day old embryo.

ES cells are microinjected into the blastocoele cavity of a 3.5 day old embryo derived from natural matings of C57Bl/6 mice. After the injected embryos have been transferred into the uterus of a pseudopregnant recipient animal, the animals become the financial responsibility of the investigator and are housed under his/her animal protocol number but will still be housed within the Barrier facility. Pups will be born about 3 weeks after injected blastocyst are transferred to a recipient animal. Once hair color has established, percentage of chimericism is noted.

[Click here to schedule a consultation](#)

## Attachment

 [ES\\_Cell\\_Microinjection\\_Form\\_0119.docx](#) - Added on December 18, 2018 at 11:54 AM by [Jennifer Skelton](#)

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