

Resource Summary Report

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BWH Transgenic Core Facility

RRID:SCR_009688

Type: Tool

Proper Citation

BWH Transgenic Core Facility (RRID:SCR_009688)

Resource Information

URL: <http://harvard.eagle-i.net/i/0000012a-2511-e97c-5617-794280000000>

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Description: Core facility that provides the following services: ES cell transfection (electroporation), Thawing/expansion of targeted ES cells, Microinjection of ES cells into blastocysts, Microinjection of DNA constructs into egg pronuclei for generating transgenic mice, Microinjection of BAC DNAs, DNA injection and microdissection, Lentiviral transgenics service, Injection of induced pluripotent stem cells for testing totipotency, Tail biopsy service, Breeding services, Mouse manipulation consultation. The Brigham & Women's Hospital Transgenic Core Facility provides services for generating transgenic and knockout mice. Established in 1992, the BWH Core Facility has been providing gene targeting and microinjection services using state-of-the-art facilities and equipment. Dr. Lina Du, formerly a plastic surgeon in Beijing and an expert in microvascular surgery, performs both blastocyst and pronuclear injections. She has over 15 years of experience in embryo manipulation and the generation transgenic mice. The Core Facility has all of the equipment necessary for generation of transgenic mice including a Nikon Diaphot microscope equipped with Nomarski Optics and Narishige micromanipulators for microinjections, Nikon surgical microscopes for egg isolation and transfer, a sutter needle puller and a de Fonbrune microforge. The facility maintains mice necessary for egg donors, egg recipients, and vasectomized males. This is a non-profit facility and charges are based upon anticipated mouse costs, maintenance of mice and equipment, and purchase of necessary surgical supplies and chemicals. The ES cell culture service has been offered for 6 years. Our staff carries out electroporation of targeting vectors into ES cells and provides investigators with DNA to identify ES cells carrying the desired recombination events. Then they expand the appropriate ES Cells for microinjection into blastocysts by the BWH Transgenic Core.

Resource Type: service resource, access service resource, core facility

Keywords: embryonic stem cell electroporation, embryonic stem cell culture, blastocyst injection, transgenic mouse model generation, oocyte injection, microdissection, viral infection, tail biopsy, laboratory animal care

Funding:

Resource Name: BWH Transgenic Core Facility

Resource ID: SCR_009688

Alternate IDs: nlx_156147

Alternate URLs:

<http://brighamandwomens.org/research/depts/pathology/transgenic/default.aspx>

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Ratings and Alerts

No rating or validation information has been found for BWH Transgenic Core Facility.

No alerts have been found for BWH Transgenic Core Facility.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.