

Resource Summary Report

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Columbia Transgenic Mouse Shared Resource

RRID:SCR_012640

Type: Tool

Proper Citation

Columbia Transgenic Mouse Shared Resource (RRID:SCR_012640)

Resource Information

URL: <http://www.scienceexchange.com/facilities/transgenic-mouse-shared-resource-columbia>

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Description: THIS RESOURCE IS NO LONGER IN SERVICE. Documented on April 22, 2024. Core facility that specializes in the generation and analysis of genetically modified mice, including transgenic and knockout animals, is an essential technology for biomedical research. Our services include: Production of transgenic mice by pronuclear DNA microinjection and embryo transfer. Production of chimeric mice by blastocyst injection of genetically modified ES cells and embryo transfer, which is part of the procedure of producing knockout or knockin mice. Gene targeting, which involves the electroporation of a targeting vector into pluripotent mouse embryonic stem (ES) cells and the selection of gene-targeted clones. Education of investigators and advice on vector and experimental design for experiments using transgenic and knockout mice. Bioimaging: The Animal Imaging Service provides investigators the opportunity for non-invasive detection, localization, and longitudinal monitoring of primary and metastatic cancer cells in vivo, in allograft, xenograft, transgenic and knock-out mouse models. The IVIS Spectrum (Caliper Life Sciences, Hopkinton MA) uses optical imaging technology to detect bioluminescent and fluorescent reporters across the blue to near infrared wavelength region. DNA samples and ES cell lines are injected in the order in which the signed service request forms are received. Currently, the average time from receipt of the service request to injection is approximately 2 weeks. For ES Cell electroporation and expansion, success in gene targeting cannot be guaranteed due to inherent variability in the frequency of targeting different loci, and the possibility of mistakes or mutations in the targeting vector.

Abbreviations: Columbia Transgenic Mouse Shared Resource

Synonyms: Columbia University Transgenic Mouse Shared Resource

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

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: Columbia Transgenic Mouse Shared Resource

Resource ID: SCR_012640

Alternate IDs: SciEx_600

Record Creation Time: 20220129T080311+0000

Record Last Update: 20260804T043512+0000

Ratings and Alerts

No rating or validation information has been found for Columbia Transgenic Mouse Shared Resource.

No alerts have been found for Columbia Transgenic Mouse Shared Resource.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.