Generation of precision cancer mouse models using CRISPR-Cas9

What service do we offer?

Generation of precision cancer mouse models using CRISPR-Cas9

The Animal Modelling Facility (AMF) at the Netherlands Cancer Institute provides all services related to the generation of genetically engineered mice (GEM) for academic researchers, with full-service covering the design and all hands-on steps. The AMF keeps track of recent technological developments and tests their usefulness for improving model generation.

APPLY NOW!!

Included in the service:

This is included in the service provision by default.

For each GEM the AMF designs efficient genotyping protocols. In addition, for each GEM the AMF provides cryopreservation and if needed revitalisation.

Additional support:

This can be provided on demand if there is canSERV funding available, or on a fee-for-service or collaborative basis and will require further negotiations with the applicant.

The AMF provides the services of modulating ES-cells for in vitro studies and produce viruses for somatic modelling.

Who provides this service?

The Animal Modelling Facility at The Netherlands Cancer Institute (Netherlands)

[The Animal Modelling Facility (AMF)](#) at the [Netherlands Cancer Institute (NKI)](#) consists of a molecular biology laboratory, an embryo manipulation laboratory and 2 rooms in the Animal Facility.

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References:

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- Morgner J, Bornes L, Hahn K, et al. **A Lamb1Dendra2 mouse model identifies basement-membrane-producing origins and dynamics in PyMT breast tumors**. *Dev Cell*. 2023;58(7):535-549. doi.org/10.1016/j.devcel.2023.02.017

[INFRAFRONTIER, the European Research Infrastructure for Modelling Human Diseases](#), is a non-profit organisation dedicated to advancing disease understanding and treatment through cutting-edge models. Operated by a [network of over 20 leading biomedical research institutes](#), it empowers research on human health and disease. Committed to excellence, INFRAFRONTIER adheres to rigorous scientific benchmarks and prioritises animal welfare. Through [collaboration with other infrastructures](#), it fosters global data sharing and contributes to tackling significant health challenges. INFRAFRONTIER serves as a platform for innovative technologies and knowledge exchange, leveraging the power of disease modelling to improve human health.

INFRAFRONTIER offers a host of cutting-edge in vivo services in [canSERV](#) like generation of precision cancer models, in-depth cancer phenotyping and more! These free-of-charge services are offered by INFRAFRONTIER partners that are world-class experts in disease modelling.