

# Resource Summary Report

Generated by [dkNET](#) on Aug 4, 2026

## Van Andel Institute Transgenic Core Facility

RRID:SCR\_022914

Type: Tool

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### Proper Citation

Van Andel Institute Transgenic Core Facility (RRID:SCR\_022914)

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### Resource Information

**URL:** <https://vivariumandtransgeniccore.vai.org/>

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**Description:** Provides genetically modified animal models for our collaborators. For preexisting models provides rederivation or reconstitution for purpose of importing animals into Vivarium barrier. In the absence of preexisting models core works closely with partnering labs to generate their ideal mutation de novo, often using CRISPR technology. Usually beginning with a brief consultation, this process involves discussing factors such as ideal background strain, molecular methods for optimizing the intended genetic change, mutation induction strategies, screening approaches and eventual QC of the new mutant line with the overall goal of giving our collaborators a fully informed, realistic picture of their projects timeframe, pitfalls and workflow. Core provides mouse sperm and embryo cryopreservation services for purpose of archiving and distributing valuable lines. Institute is an AAALAC-accredited facility. All procedures are conducted according to the NIH Guide for the Care and Use of Laboratory Animals.

**Synonyms:** VAI Transgenic Core, Van Andel Institute VAI Transgenic Core

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

**Keywords:** USEEdit, ABRF, genetically modified animal models, Vivarium barrier

**Resource Name:** Van Andel Institute Transgenic Core Facility

**Resource ID:** SCR\_022914

**Alternate IDs:** ABRF\_1601

**Alternate URLs:** <https://coremarketplace.org/?FacilityID=1601&citation=1>

**Record Creation Time:** 20221022T050155+0000

**Record Last Update:** 20260804T043806+0000

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## Ratings and Alerts

No rating or validation information has been found for Van Andel Institute Transgenic Core Facility.

No alerts have been found for Van Andel Institute Transgenic Core Facility.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 9 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [dkNET](#) .

Diegel CR, et al. (2025) The class A repeats of LRP5 are required for normal development of bone, retinal vasculature and mammary gland in vivo. Disease models & mechanisms, 18(11).

Jones P, et al. (2025) Dnmt3a2 expression during embryonic development is required for phenotypic stability. Research square.

Panzeri I, et al. (2025) TRIM28-dependent developmental heterogeneity determines cancer susceptibility through distinct epigenetic states. Nature cancer, 6(2), 385.

Liu M, et al. (2025) Dnmt3a2 expression during embryonic development is required for phenotypic stability. Communications biology, 9(1), 44.

Panzeri I, et al. (2024) Chronic obesity does not alter cancer survival in Tp53 R270H/+ mice. bioRxiv : the preprint server for biology.

Panzeri I, et al. (2023) Developmental priming of cancer susceptibility. bioRxiv : the preprint server for biology.

Diegel CR, et al. (2023) Inhibiting WNT secretion reduces high bone mass caused by Sost loss-of-function or gain-of-function mutations in Lrp5. Bone research, 11(1), 47.

Waldhart AN, et al. (2023) Optimal HSF1 activation in response to acute cold stress in BAT requires nuclear TXNIP. iScience, 26(5), 106538.

Liegel RP, et al. (2023) Successful therapeutic intervention in new mouse models of frizzled 2-associated congenital malformations. Development (Cambridge, England), 150(3).