



Transnetyx®
Automated Genotyping

Vanderbilt
MyColony



**Mouse husbandry is not the science.
It makes the science possible.**

When we make animal colony management fast and easy for researchers, researchers have more time for science.

Summary of Services

- Unlimited automated genotyping through FY2027
 - Accurate results in 72 business hours
 - Includes supplies and shipping
- Required use of COLONY (Mouse Colony Management Software)
- One year of ARTIFICIAL MOUSE INTELLIGENCE (AMI)
- Dedicated Transnetyx Representative on site
 - Two-three days per week
 - Through FY2025

Advantages

- Improves scientific rigor and reproducibility
- Reduces cost of genotyping (economies of scale)
- Allows for internal and external reporting/sharing of mouse models used at Vanderbilt
- Results in more responsible use of animals and improved utilization of limited space and resources
- Already implemented successfully at other large institutions, including NIH, Mass General, U of Mich., Janelia Farms, etc.

Financials

- Cost Recovery via Per Diems
- MyColony per diem rate
 - Applied to **all breeding cages**, regardless of whether genotyping services are used (no opt out/in)
- Increase of \$0.08/breeding cage implemented over two years
 - \$0.04/cage in FY 2024
 - \$0.04/cage in FY2025
- Standard per diem rate
 - Applied to cages of mice ordered directly from vendors for “All-in/All out” experiments

Process

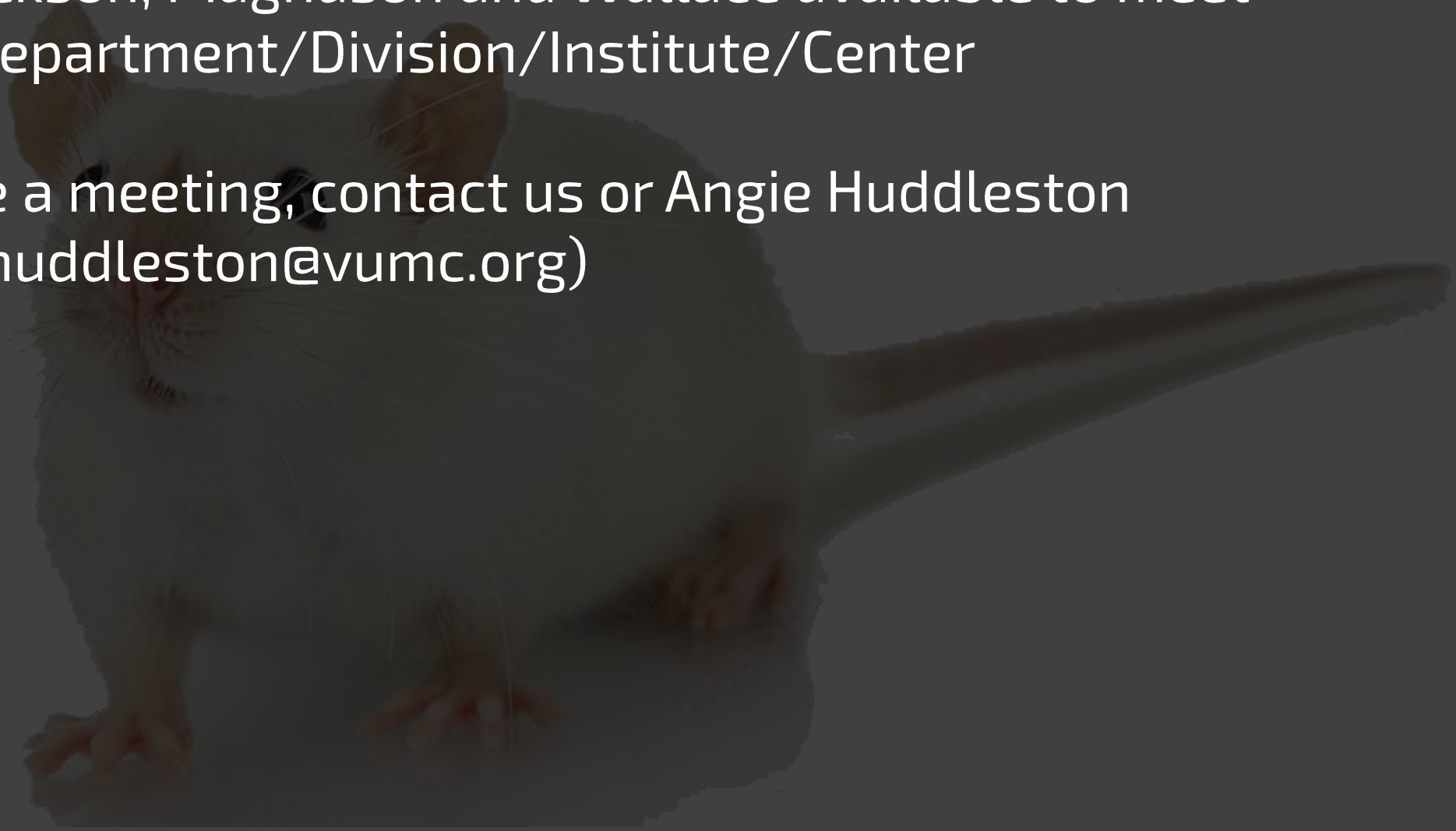
- Transnetyx contacted Vanderbilt animal care representatives in 2021 to explore interest in initiative
- Transnetyx has already been a trusted partner at Vanderbilt
In 2021: 39 researchers/19,644 samples
- Concept/services piloted in small number of additional Vanderbilt labs for 6 months-1 year

Meetings held with:

- VUMC/VU Senior Leaders
- Subset of researchers using mouse models (top 30 by census)
- Small Animal Advisory Committee
- December 2022 Town Hall

Vanderbilt MyColony

- Emeson, Jackson, Magnuson and Wallace available to meet with your Department/Division/Institute/Center
- To schedule a meeting, contact us or Angie Huddleston (angela.m.huddleston@vumc.org)



A white mouse with black eyes and a red nose is the central focus of the image. It is looking directly at the camera with a neutral expression. The mouse's fur is white, and its ears are upright. The background is a dark, solid color, which makes the white mouse stand out. The word "Questions?" is overlaid on the mouse's face in a large, white, sans-serif font.

Questions?

Getting Started: Genotyping

- All labs are welcome to get started with genotyping today
- Automated genotyping accounts are required for Colony onboarding

Getting Started: Genotyping

- PLEASE FILL OUT THE GENOTYPING INTAKE FORM:
- <https://bit.ly/VUMC-MyColony>
- You will be contacted by a member of our Vanderbilt Team!

Getting Started: Colony

- Colony onboarding will be organized by census
- Starting January 1, 2023 Transnetyx began onboarding the thirty highest census labs
 - Labs already genotyping with Transnetyx will begin Colony training (introductory session and three training sessions)
 - Labs that do not work with Transnetyx will first register at www.Transnetyx.com for genotyping assay development and results validation

Getting Started: Colony

- All labs who want to get started in Colony before qualifying for personalized onboarding
 - will be provided with self-guided materials
 - will have full access to online training resources, including Chat.