

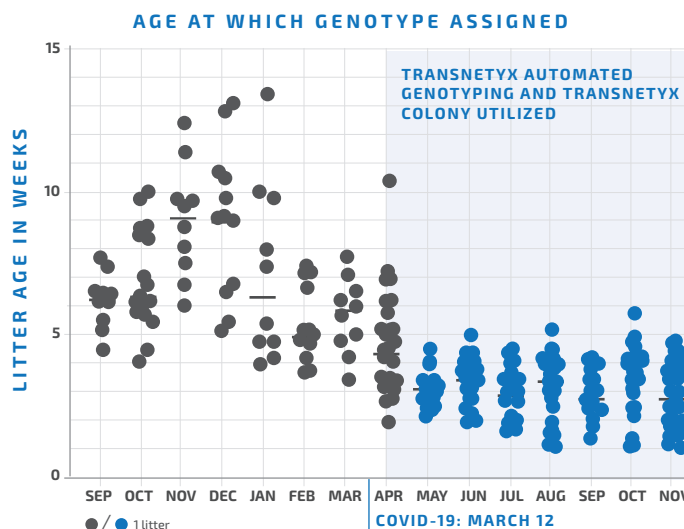
The Effects and Impact of Automated Genotyping + Colony

This study tracks several labs from 2020 to 2021 who outsourced their genotyping to Transnetyx. Some of those labs also used the Transnetyx Colony software to manage their colonies. What we found is that these labs consistently had extra time, more efficient breeding, higher scientific productivity, more experimental animals, and decreased time to experiment.

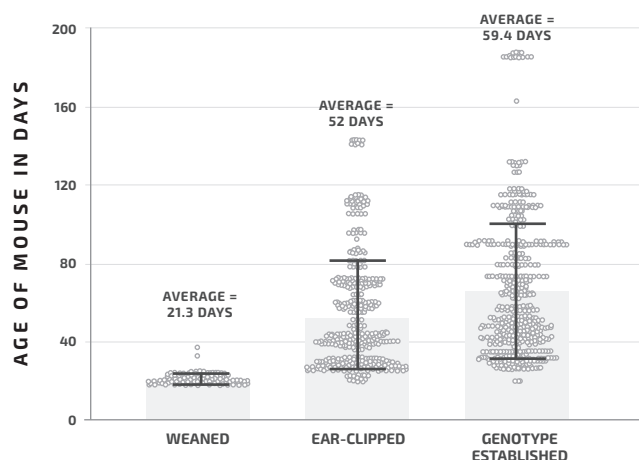
Assigning genotypes earlier = Taking action earlier

A lab at a major US research institution in Baltimore shared litter ages (in weeks) at which genotypes were assigned to all mice both before and after the use of the Transnetyx Automated Genotyping service in connection with Transnetyx Colony.

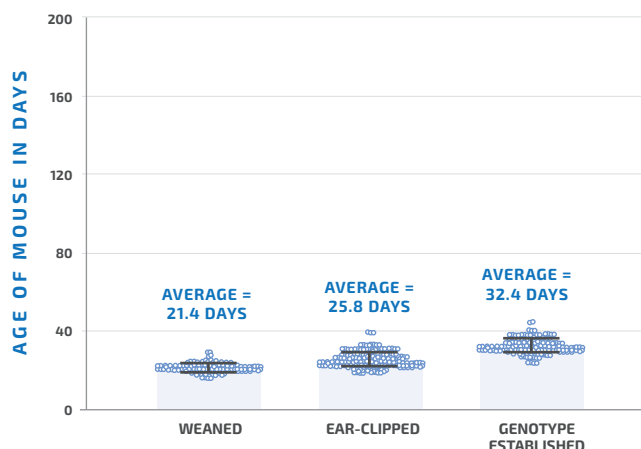
Transnetyx assigned genotypes **24.5 days faster** than in-house genotyping, allowing for earlier removal of non-scientifically useful animals, effective cage consolidation and additional space within the rack. As these charts demonstrate, a lab based in Oxford, UK, reported similar findings.



MANUAL IN HOUSE GENOTYPING
(527 SAMPLES) 01.13.2020-11.16.2020



TRANSNETYX AUTOMATED GENOTYPING
(508 SAMPLES) 10.12.2020-07.08.2121



All labs identified some key benefits and changes as a result of using Transnetyx

- 1

Lab members saved time. They had no need to run gels and run them again when they failed.
- 2

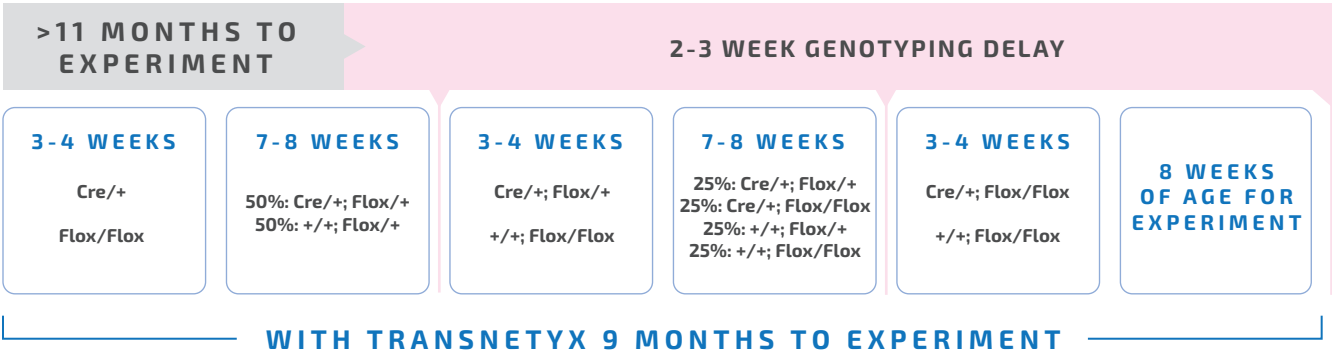
Samples no longer needed to be batched. Free shipping with Transnetyx TAGCenter eliminates additional costs to genotype smaller batches.
- 3

Lab members don't love genotyping, and they were relieved to focus on more engaging tasks.
- 4

Transnetyx provided custom assays for strains with multiple alleles, meaning techs didn't need to run multiple PCRs to genotype.

Eliminating genotyping delays increases speed to experiment

A lab in Boston, MA identified that removing genotyping delays when crossing animals enabled them to produce experimental animals 2 months faster.



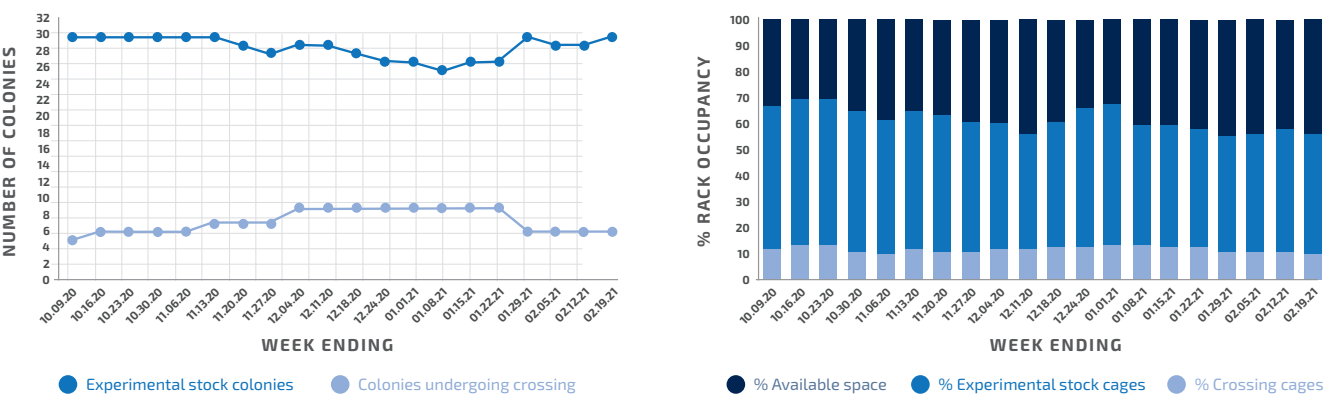
I realized I have been setting up the crosses a lot faster, because I got the genotyping results a lot faster. Everything was in the system, so I knew exactly which mice to pull and which to cull. The Colony system made it very easy and it just became second nature. When you multiply this by strain, it adds up very quickly."

- BOSTON RESEARCHER

Increased scientific output within the same space

A UK lab found that during the study, the number of crosses increased by 80%, from 5 to 9. With the additional crosses, the rate of cage occupancy did not increase at the same rate – staying at around 12%.

Researchers in the lab had been waiting for space to start the breedings — which meant delayed experiments.





Transnetyx
8110 Cordova Road
Suite 119
Cordova, TN 38016

help@transnetyx.com
+1 888 321 2113

[Transnetyx.com](https://transnetyx.com)