

# An unparalleled selection of translational and physiologically relevant animal models

Inotiv is your source for unique, next-generation animal research models for discovery and preclinical research applications. Powered by legacy models developed at SAGE Labs, Inc., our portfolio now contains over 80 genetically engineered rodent models that feature specific gene deletions, insertions and modifications, and cover various therapeutic areas, such as neuroscience, ADMET and oncology.

For more information on our predeveloped transgenic models, please visit [inotiv.com](https://www.inotiv.com) or contact us at [GEMSorders@inotiv.com](mailto:GEMSorders@inotiv.com).

| NEUROSCIENCE |                     |                           |                           |                             |                       |                              |                        |  |
|--------------|---------------------|---------------------------|---------------------------|-----------------------------|-----------------------|------------------------------|------------------------|--|
|              | Alzheimer's Disease | Autism                    | Pain                      | Hereditary Neuropathy       | Parkinson's Disease*  | Schizophrenia                | Cre Models             |  |
|              | ApoE KO rat         | CHD8 KO rat               | Faah KO rat               | SORD KO rat                 | Lrrk1 KO rat          | BDNF KO rat                  | 5Ht3a-Cre KI rat       |  |
|              | hApoE2 KI rat       | Cntnap2 KO rat            | Oprm1 KO rat              |                             | Lrrk2 KO rat          | Cacna1c KO rat               | CamKIIa-Cre KI rat     |  |
|              | hApoE3 KI rat       | Fmr1 KO rat               | p75 <sup>NTR</sup> KO rat |                             | Lrrk1-Lrrk2 KO rat    | Chrna7 KO rat                | DAT-Cre KI rat         |  |
|              | hApoE4 KI rat       | Gabrb3 KO rat             | Trpv1 KO rat              |                             | Park2 (Parkin) KO rat | Disc1 KO rat                 | Parvalbumin-Cre KI rat |  |
|              | App KO rat          | MeCP2 KO rat              |                           |                             | Park7 (DJ-1) KO rat   | Pde4b KO rat                 | Sst-Cre KI rat         |  |
|              | BDNF KO rat         | Met KO rat                |                           |                             | Pink1 (Park6) KO rat  |                              | tdTomato KI rat        |  |
|              |                     | mGluR5 KO rat             |                           |                             | Pink1/Parkin KO rat   |                              | TH-Cre KI rat          |  |
|              |                     | Nrxn1 KO rat              |                           |                             |                       |                              | Tph2-Cre KI rat        |  |
|              |                     | Nlgn3 KO rat              |                           |                             |                       |                              | Vgat-Cre KI rat        |  |
|              | Rbfox1 KO rat       |                           |                           |                             |                       | VIP-Cre KI rat               |                        |  |
| ADMET        |                     |                           | ONCOLOGY                  |                             |                       |                              |                        |  |
|              | Transporters        | Xenobiotic                |                           | Cell Proliferation          | DNA Repair            | Immunotherapy                |                        |  |
|              | Bcrp KO rat         | AHR KO rat                |                           | p53 KO rat                  | Prkdc KO rat          | B-NDG KO mouse               |                        |  |
|              | BSEP KO rat         | CAR KO rat                |                           | Pten KO rat                 |                       |                              |                        |  |
|              | Mdr1a KO rat        | Ppara KO rat              |                           | Rag2-Il2rg (R2G2®) KO mouse |                       |                              |                        |  |
|              | Mdr1a-1b KO rat     | PXR KO rat                | IMMUNOLOGY                |                             |                       |                              |                        |  |
|              | Mdr1a-Bcrp KO rat   | PXR/CAR KO rat            |                           | Inflammation                |                       |                              |                        |  |
|              | Mrp1 KO rat         | PXR/CAR/AHR KO rat        |                           | Cox1 KO rat                 |                       | Rag1 KO rat (Sprague Dawley) |                        |  |
|              | Mrp2 KO rat         |                           |                           | Cox2 KO rat                 |                       | Rag2 KO rat (Fischer 344)    |                        |  |
|              | Oat1 KO rat         |                           |                           | Lgals1 (Gal1) KO rat        |                       | Rag2 KO rat (Sprague Dawley) |                        |  |
|              | Oat3 KO rat         |                           |                           | Prkdc KO rat                |                       | Rag2-Il2rg (R2G2®) KO mouse  |                        |  |
| Oct1 KO rat  |                     | Rag1 KO rat (Fischer 344) |                           | Tbx21 (T-beta) KO rat       |                       |                              |                        |  |
| Oct2 KO rat  |                     |                           |                           |                             |                       |                              |                        |  |
| RESPIRATORY  |                     | INFECTIOUS DISEASE        |                           |                             | CARDIOVASCULAR        |                              |                        |  |
|              | Cystic Fibrosis     |                           | COVID-19                  |                             |                       |                              | Atherosclerosis        |  |
|              | CFTR KO rat         |                           | hACE2 KI rat              |                             |                       |                              | ApoE KO rat            |  |
|              |                     |                           | hACE2 KI mouse            |                             |                       |                              | hApoE2 KI rat          |  |
|              |                     |                           | hTmprss2 KI mouse         |                             |                       |                              | hApoE3 KI rat          |  |
|              |                     |                           | hACE2/hTmprss2 KI mouse   |                             |                       |                              | hApoE4 KI rat          |  |
|              |                     |                           |                           |                             | Ldlr KO rat           |                              |                        |  |
|              |                     |                           |                           |                             | Leptin KO rat         |                              |                        |  |

\*Our suite of Parkinson's disease research models have been developed in partnership with the Michael J. Fox Foundation. To help drive Parkinson's disease research, our α-Synuclein A53T KI, α-Synuclein KO, and Pink1/Parkin KO rat models do not require a breeding license or MTA for purchase.



# Keep your research on track

Utilize our comprehensive portfolio of tailor-made support services to keep your research moving forward.



## Contract breeding cohort supply

Ensure planned, regular supply batches of models bred, pre-conditioned and delivered to your facilities. Add-on from our integrated service spectrum to improve welfare and research efficiency.



## Quarantine

Prevent the risk of introducing pathogens to your facility by utilizing Inotiv's isolators to quarantine, test, revitalize or rederive the models you need from other facilities with an unknown health status.



## Health status verification

Verify and maintain the health of your colonies with our in-house full spectrum health monitoring program. All of our standard and contract bred models are guaranteed to be specific pathogen free.



## Surgical Services

Access to highly skilled surgical teams combined with expert solutions and a first-in-class surgical model tracking system.



## Cryopreservation

Reduce the risk of losing a valuable cohort through genetic or pathogen contamination or catastrophe, and eliminate needless breeding through cryopreservation.



## Preconditioned models and services

Leverage Inotiv's Veterinary Science, Research and Support team to produce and deliver research-ready models including aged animals, special matings, and models maintained on custom diets.



## Rederivation and revitalization

Bring cohorts back to their ideal state in the shortest time possible or completely refresh colonies from cryopreserved material.