Portofolio **hFcRn** mouse models

genOway | ULTIMATE PREDICTABILITY

Support the PK/PD assessment of your FcRn/albumin binding therapeutic

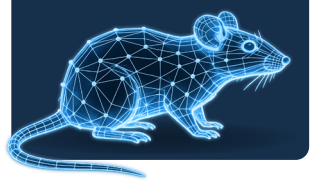
thanks to genOway's unique portfolio of humanized FcRn mouse models

Key scientific questions → **Preclinical journey** supported by **genOway's program-based approach** → **Relevant preclinical data**

PK/PD assessment of hFcRn and/or hSA binding therapeutics based on your program context

PK Optimization
(antibodies, ADCs)

The **genO-hSA/hFcRn reference mouse model**



+

Tolerance, ADA, Xenograft studies	Advanced **hFcRn** mouse models on **immunodeficient background**
Drug shuttling across the BBB and biodistribution analysis	Advanced **hFcRn** mouse models with **humanized TFRC**
Fc effector function design & optimization and biodistribution analysis	Advanced **hFcRn** mouse models with **humanized Fc receptors**

Our program-based approach:

- **Free scientific expertise at your disposal:** for selecting the right model, running you through the extensive data package, and establishing your experimental design
- Possible **crossbreeding rights with your established models:** request for options
- **New models in development.** Please ask for information if you didn't find what you were looking for

What makes our portfolio of humanized hSA/hFcRn mice unique

- ☑ **Physiological expression of humanized targets:** more clinically relevant biology
- ☑ **Robust, extensive validation data generated in-house/with biopharma partners:** de-risk your development program
- ☑ **Fully immunocompetent:** preserve authentic tumor-immune interactions

Easy, quick and secure access: models produced by professional breeders **in US and Europe** with certified health status and immediately available for door-to-door delivery to your facility or the CRO of your choice

Evaluated by

7+

leading biopharma companies with over

10 YEARS

of track record

Scan or click to access the **genO-hSA/hFcRn portfolio**

genOway | ULTIMATE PREDICTABILITY

genO-hSA/hFcRn portfolio (scan or click)

Find the right FcRn model for your program

genO-hSA/hFcRn: the reference humanized mouse model

ASSESS THE PHARMACOKINETICS AND HALF-LIFE OF THERAPEUTIC MOLECULES OPTIMIZED WITH HUMAN SERUM ALBUMIN AND/OR HUMAN FCRN BINDERS

Developed by genOway in collaboration with Albumedix, this was the first mouse model to express HSA and the human neonatal Fc receptor (hFcRn). It was published in 2016.

Translatable PK assessment of ADCs relative to NHPs and humans demonstrated by CrownBio, outperforming all other mouse models (WT and hFcRn mouse model).

CROWN BIOSCIENCE · TONIX PHARMACEUTICALS · GSK · Avacta · Crescendo biologics · novozymes · argenx

Advanced versions of the genO-hSA/hFcRn model for more precise scientific questions

Advanced FcRn model on an immunodeficient background

genO-hSA/hFcRn-Rag1KO

ASSESS PK IN TUMOR-BEARING OR LOW-IMMUNOGENICITY SETTINGS

Combine HSA and hFcRn with an immunodeficient background, to be able to perform xenograft studies as well as pharmacokinetic studies in contexts where **reduced immune responses** are required.

Based on the **genO-hSA/hFcRn** reference model which has been **extensively validated**.

CLIENT REFERENCES

AARHUS UNIVERSITY · argenx · VIB

Advanced FcRn model with humanized TFRC

genO-hTFRC/hSA/hFcRn

EXPLORE DELIVERY AND HALF-LIFE ACROSS THE BLOOD-BRAIN BARRIER

Evaluate the half-life of therapeutic agents designed to cross the blood-brain barrier in a model that **combines HSA and hFcRn with the human transferrin receptor**.

Based on the **genO-hTFRC** reference model which has been **extensively validated**.

CLIENT REFERENCES

inatherys smart treatments for complex diseases · Lundbeck

Advanced FcRn model with humanized Fcγ receptors

genO-hFcγR/hFcRn

ASSOCIATE PHARMACOKINETICS WITH Fc EFFECTOR FUNCTION

Combine **humanized FcRn and Fcγ receptor biology** to assess simultaneously the PK and effector function of molecules engineered for optimized Fc function.

Based on the **genO-hFcγR** reference model which has been **extensively validated**.

CLIENT REFERENCES

argenx · merida BIOSCIENCES · VIB · innate pharma