

Quarterly Squeaker

Exciting News from Taconic Biosciences

PRODUCT SPOTLIGHT

New application note featuring humanized NOG-EXL

Head-to-head comparison of humanized NOG-EXL and NSG-SGM3 demonstrates NOG-EXL mice best mimic human immune cell composition and have improved survival.

Reference: Maser I-P, et al. (2020) The Tumor Milieu Promotes Functional Human Tumor-Resident Plasmacytoid Dendritic Cells in Humanized Mouse Models. *Front. Immunol.* **11:2082**.

Maser et al. generated humanized immune system mice via busulfan preconditioning and engraftment of cord blood-derived hematopoietic stem cells in young adult female mice. The same protocol and donors were used across three mouse strains: NOG, NOG-EXL, and NSG-SGM3.

KEY TAKEAWAYS

- ▶ Humanized NSG-SGM3 mice have decreased survival compared to humanized NOG-EXL or humanized NOG mice
- ▶ Humanized NOG-EXL mice develop a reconstituted human immune system which more closely resembles the human immune cell composition compared to humanized NSG-SGM3 or NOG mice
- ▶ Humanized NOG-EXL mice develop all three major types of human dendritic cells

To learn more, visit:

taconic.com/nog-exl-application-note

Reach out to your account manager to schedule a consultation.

At Taconic Biosciences, our goal is to empower customers with the best animal model solutions. This quarter, we're sharing new products, promotional offers, and important information to provide you with more opportunities to drive your research and discoveries. Read on to find out what we're squeaking about this quarter.

SMART SELECT FREE TRIAL PROGRAM

Request up to 20 animals from a qualifying strain, to test for quality, consistency, and suitability for your experimental purpose, and evaluate Taconic Biosciences' consultative support and customer service. Free shipping where applicable. Visit taconic.com/smart-select

TACONIC-CYAGEN ACADEMIC MODEL GENERATION ALLIANCE

The **Taconic-Cyagen Academic Model Generation Alliance** provides researchers with cost-effective, reliable model generation services that are tailored to academic budget constraints with guaranteed genotype* and seamless delivery via TruImport that can mitigate quarantine concerns.

Whether your studies require a point mutation knockin; conditional knockout; or humanization, The Alliance's comprehensive capabilities can match each project with the best strategy for success. Capabilities include simple transgenics, knock-outs and point mutations to complex large fragment insertions using ES cell and CRISPR methods.

To learn more or to request a consultation for custom model design, click [here](#).

* Does not guarantee biological outcome (i.e. transgene expression levels) and is limited by modifications that may negatively affect the health and/or viability of the model.

PERSONALIZED LIVE WEBINARS

Is your department or lab group interested in a personalized live presentation (webinar) from one of Taconic's scientists? Our scientists are experts in preclinical research models and can speak on a wide range of topics. For example: on the use of rodents to immuno-oncology, neurodegeneration, inflammatory bowel disease and NASH studies or how the C57BL/6 strain became the world's most valuable mouse. Ask your account manager about scheduling a live webinar for your team.

Contact your Taconic Account Manager for more information about these valuable opportunities.

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