



Chi-Mice®

More predictive humanized models.

PATIENT-DERIVED TUMOR XENOGRAPTS (PDX)

Chi-Mice® PDX models offer an array of opportunities for translational research:

- More relevant evaluation of targeted therapies compared to standard xenografts
- “Preclinical Phase II” pharmacological proof-of-concept studies using panel of human tumors
- Target identification and validation using fresh biological samples

Using the molecular tumor profile and correlation with sensitivity to a reference drug, make better predictions of clinical outcome, taking into account the diversity of each patient tumor phenotype and genotype.

Identify biomarkers upon response to therapy to stratify patients for clinical trials.

Chi-Mice® PDX models can be specifically adapted to your need:

- Human tumor-bearing mice can be delivered for *ex vivo* screening, tumor microenvironment studies, target identification and potential “in house” model establishment
- Cohorts of established models can be delivered ready to use for pharmacological studies and identification of biomarkers for patient stratification
- Tumors can be selected and expanded based on molecular profile or drug sensitivity profile for *in vivo*

proof of concept studies and support of clinical trial design

- Orthotopic/subcutaneous models
- Metastatic dissemination
- A unique collection of 53 highly profiled colorectal cancer models is available. Inquire about other available tumor types.

What other benefits do Chi-Mice® PDX models offer you?

- Models are representative of human cancer pathologies, human cancer genetic and histology diversity
- Models are linked to patient clinical history
- Selection of the right lead for clinical investigation
- Selection of human cancer pathologies for clinical development
- Production of mice xenografted with both human tumors and immune system for assessment of therapeutic immunomodulatory activities
- Custom-tailored model development or shipment of existing models

For more information email contact@oncodesign.com

www.oncodesign.com

Chi-Mice® is part of a comprehensive portfolio of translational rodent models and services offered by OncoDesign.



Chi-Mice®

More predictive humanized models.



IMMUNODEFICIENT MICE CARRYING A RECONSTITUTED HUMAN IMMUNE SYSTEM

Chi-Mice® humanized mouse models are refined tools to study the effect of the human immune system in preclinical oncology:

- Assessment of therapeutic immunomodulatory activities
- Evaluation of antitumor activity related to antibody dependent cell cytotoxicity (ADCC)

Humanized mouse models are also excellent tools for a large panel of research application, such as:

- Study of hematopoiesis
- Analysis of innate and adaptive immunity
- GvHD (Graft versus Host Disease)
- Autoimmune disease
- Allergy
- Inflammation
- Infectious disease (HIV)
- Vaccine development
- Transplantation
- Toxicology

Characteristics of humanized Chi-Mice® models:

Full reconstitution of a complete human immune system from human hematopoietic cells in an appropriate animal strain, depending on your target, your molecule and the question you have:

- hPMBC* in C.B-17 scid mouse
- hPMBC* in NOD scid mouse
- hPMBC¹ in CIEA NOG mouse®

- CD3-depleted HSC² from UCB³ samples in CIEA NOG mouse®
- Purified hNK⁴ cells in CIEA NOG mouse®
- Human hematopoietic cells from healthy or pathological blood donors

What other benefits do humanized Chi-Mice® models offer you?

- Production of mice grafted with a human immune system and/or patient tumor for drug testing
- Researchers can use humanized Chi-Mice® to assess correlated diseases (cancer/inflammation, cancer/auto-immune diseases, inflammation/transplantation, etc.)

(1) hPBMC: human peripheral blood mononuclear cells

(2) HSC: hematopoietic stem cells

(3) UCB: umbilical cord blood

(4) hNK: human natural killer

For more information email contact@oncodesign.com

www.oncodesign.com

Chi-Mice® is part of a comprehensive portfolio of translational rodent models and services offered by OncoDesign.

