UW Humanized Mouse Core Facility Statement

The Humanized Mouse Core at the University of Wisconsin–Madison provides investigators with a variety of humanized mouse models for their individual research needs. Our goal is to readily supply animals of high quality and consistency in order to facilitate cutting-edge research of the human immune response. Under the guidance of Director, Dr. Matthew Brown, the Core provides a variety of humanized animal models and consultation services to investigators.

The UW Humanized Mouse Core specializes in production of the current standard model in the field — the humanized immune mouse (HIM) model — including the NeoThy and BLT models incorporating the engraftment of cryopreserved human thymus tissue and hematopoietic stem cells into immune-deficient mouse host strains. Core personnel closely follow the research literature and also experimentally validate new iterations of humanized mouse models, including validating novel animal strains and the use of pluripotent stem cell-derived tissues.

Services

- Humanized Mice (NeoThy, BLT, HSC-hu, PBL-hu, Custom Models)
- Age-Matched Control Mice
- Flow Cytometry (CytoFlex 12 color Cytometer)
- Humanization Reagents (Cord Blood Cells, Thymus Tissue, etc)
- Cell Counting (Automated)
- Mouse Blood and Tissue Collection
- Lab Incubator Calibration
- Luminex (Coming Soon in Summer 2023)
- Experimental Design/Analysis Consultation
- Custom Services