Disease-Diagnosed Research Specimens

Sekisui XenoTech is committed to furthering medical science and contributing to the development of new treatments. In pursuit of this goal, we provide disease-diagnosed and normal tissue microarrays, pre-lysates, paraffin blocks, slides, hepatocytes or subcellular fractions for scientific investigation. Our tissue is collected with the initial intent for transplant, distinguishing our specimens from post-mortem or needle biopsy collection.

The tissue samples in Sekisui XenoTech's Research Biobank allow for the analysis of drug target expression and early markers of diseases, such as alcoholic or non-alcoholic fatty liver disease, across diverse US populations. In addition to diseased tissue, a selection of normal tissues is available to satisfy requirements of a control population.

Higher Quality Tissue Samples

Our Research Biobank samples are available in quantities larger than those obtained during needle biopsies and come from organs initially intended for transplantation. Our tissue specimens are collected in a timely manner with precise care taken to minimize downtime and preserve tissue viability. These circumstances distinguish our biobank from human tissue samples collected in a typical post-mortem, usually associated with several hours of warm ischemia. Tissues deposited in the biobank are flash frozen in liquid nitrogen and stored at -80°C.

Donor and Specimen Information

Sekisui XenoTech’s Research Biobank samples include pathologic diagnosis and donor demographics, BMI, history of diabetes and alcohol use data, along with representative microphotographs. H&E slides are prepared for each lot to illustrate tissue conditions and, together with the patient’s medical history, to offer a basic diagnosis. Macroversicular fat, inflammation, ballooning hepatocytes and fibrosis are quantified, and the presence of fibrosis is confirmed with Masson’s Trichrome staining.

Hepatocytes and NASH Donor Microsomes Available

Hepatocytes have been prepared from certain donors, both healthy and those with early stages of alcoholic or non-alcoholic fatty liver disease or diabetes. Additionally, a pool of human liver microsomes from NASH donors has already been prepared. These test systems can be a convenient human model for an array of studies, such as ailments linked to obesity and alcohol consumption; for instance, in vivo to in vitro correlation of drug metabolism and biomarker expression that characterize fatty liver disease. Enzyme activity characterization is available for many lots, and in rare cases, plateable lots are available.

Contact us to learn more at www.xenotech.com or call 913.438.7450

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