

A BiolVT Company

XenoTech Biobank

Fatty Liver Disease tissues and their exploration in microarrays

Maciej Czerwinski, PhD Director of Scientific Consulting June, 2020

XT Biobank

- XenoTech's on-call teams have processed close to 1500 human livers
- Biobank was established to preserve, characterize histologically, and distribute a diverse selection of samples from normal and diseased organs
- Fatty liver disease is the focus of the collection, major categories include:
 - Normal livers (74)
 - Steatosis (64)
 - Steatohepatitis (27)
 - Alcoholic
 - Non-alcoholic (NASH)

A BiolVT Company

 We provide lysates, subcellular fractions, and <u>tissue microarrays (TMA)</u>

A BiolVT Company

Characterization provided on data sheets

HHPL.NT Lot No. H1305

Research Biobank Human Liver Pre-Lysate Diagnosis: Normal 0.5 g of tissue in 2.0 mL Suspension Medium: Suitable buffer of customer's choosing

Donor Information

Macro Fat %	Age	Gender	Race	BMI	Alcohol Use	Alcohol Frequency	Diabetes	Hepatocytes Isolated
1	38	Male	Caucasian	25.3	Yes	Heavy	No	Yes

Serology Information

Antibody to Cytomegalovirus (CMV): Human Immunodeficiency Virus (HIV): Hepatitis B Surface Antigen (HbsAg): Antibody to Hepatitis C Virus (HCV):

Positive Negative Negative Negative





EST SYSTEMS

XENOTECH OVER 25 YEARS OF GLOBAL ADME / DMPK / DDI EXPERTISE A BiolVT Company H1305, normal, higher magnification, H&E stain





A BiolVT Company

Fibrosis, perivenular and sinusoidal



A BiolVT Company Steatosis, macrovesicular 30-40 %, BMI 33.1

XENOTECH OVER 25 YEARS OF GLOBAL ADME / DMPK / DDI EXPERTISE



XENOTECH OVER 25 YEARS OF GLOBAL ADME / DMPK / DDI EXPERTISE A BiolVT Company



Tissue microarrays

- Tissue cores of 3 mm in diameter are cut 5 µ think and arrayed on a glass slide
 - NASH

A BiolVT Company

- Steatosis
- Fibrosis
- NIDDM
- Normal adult

- Steatohepatitis with Hx of alcohol use
- Steatosis with Hx of alcohol use
- IDDM
- Normal and diseased pediatric
- Stored individually packaged in oxygen-depleted atmosphere at 4 C



Y S T E M S

A BiolVT Company

a-SMA periportal area, positive, donor 1A



SYSTEMS

A BiolVT Company

a-SMA periportal area, negative, donor 1A



XENOTECH OVER 25 YEARS OF GLOBAL ADME / DMPK / DDI EXPERTISE A BiolVT Company **a-SMA lobular area, positive, donor 1C**





Thank you for watching!

Questions? Get in touch through the Contact Us tab on our website or use our Products pages to find Research Biobank tissue preparations & microarrays currently available

