



# PROSTATE CANCER **BIOREPOSITORY NETWORK**

Datasheet No: 008 – **50 CASE BENIGN PROSTATIC HYPERPLASIA TMA (50BPH\_TMA)**

Version No: 1, January 2021

<b>TMA Name</b>	<b>50 Case Benign Prostatic Hyperplasia (50BPH TMA)</b>		
<b>Description</b>	A tissue microarray for testing biomarkers associated with benign prostatic hyperplasia (BPH). Includes 50 cases; 28 BPH from RP specimens, 12 BPH from suprapubic specimens, 10 normal from small prostate specimens, across 1 block. All cases are obtained from the NYU Site of the Prostate Cancer Biorepository Network, and are collected with institutional review board approval.		
<b>Cases</b>	28 Benign Prostatic Hyperplasia (BPH) specimens from radical prostatectomies, 13 BPH specimens from suprapubic prostatectomies, 10 normal tissue from small prostates (weight under 60g), 28 normal peripheral zone tissue, cell lines		
<b>Sample Selection</b>	BPH cores are sampled from Radical and Suprapubic prostatectomy samples and normal cores are sampled from small prostates and peripheral zones. Each case is arrayed at minimum in duplicate to address possible tissue heterogeneity and preservation artifact.		
<b>Construction</b>	This TMA is assembled using the MTA1 microarrayer (Beecher Instruments, Sun Prairie, Wisconsin) and constructed over 1 block (April 2006)		
<b>Cores</b>	<p><b>Block A:</b></p>		
<b>Diameter of cores</b>	0.6mm	<b>Thickness</b>	5µm
<b>Layout</b>	Block A: 20 columns x 19 rows, 306 cores: 111 BPH Radical, 72 BPH Suprapubic, 60 Normal from small prostates, 57 Normal peripheral zone, 6 cell line (from 2 prostate cancer cell lines) Orienting Cores: 1 Liver		
<b>TMA Slide Types</b>	Unstained: unstained paraffin TMA slide for final analysis (90-95% cores present). Test slides: unstained paraffin TMA slide for optimization (titrating Ab and experiment conditions; up to 10% cores may be missing)		





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<b>Quality control</b>	<i>H&amp;E (1<sup>st</sup>, and ? n) reviewed for core retention and accuracy of sampling (QA sheet to add as excel worksheet)</i>
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<b>Tissue Type*</b>	BPH, Radical	28	
	BPH, Suprapubic	12	
	Normal, Peripheral Zone	28	
	Normal, Small Prostate	10	
		<b>(n=50)</b>	
		<b><u>Number (n)</u></b>	<b><u>Percentage (%)</u></b>
<b>Race/Ethnicity</b>	African-American	1	2
	Asian	1	2
	Caucasian	42	84
	Hispanic	1	2
	Other	5	10
<b>Age (mean, in years)</b>	61.76		
<b>Prostate Weight (in grams)</b>	63.8		
<i>*Some cases included more than 1 tissue type</i>			

