



PROSTATE CANCER **BIOREPOSITORY NETWORK**

Datasheet No: 002 - **114 Case NYU Race Disparity TMA** (114NYURACETMA)

Version No: 1.1 Updated February 2019

TMA Name	114 Case NYU Race Disparity TMA		
Description	An intermediate-density tissue microarray for comparing biomarkers in African-American and Caucasian patients. This TMA contains tumor and non-neoplastic samples from localized prostate cancer cases. All of the cases were obtained from the NYU Site of the Prostate Cancer Biorepository Network, which were collected with institutional review board approval.		
Cases	<p>Total of 114 cases – 57 African-American cases and 57 Caucasian cases with localized prostate cancer from radical prostatectomy (RP). Each African-American case was matched to his Caucasian counterpart by following inclusion/exclusion criteria.</p> <ol style="list-style-type: none"> 1. Age at Surgery “+” or “-” 2 years 2. Date of Surgery “+” or “-” 1 year 3. Surgeon 4. Gleason Grade 5. Pathological T Stage 6. Margin Status 		
Sample Selection	Tumor cores were sampled from areas of largest grade and focus. Non-neoplastic cores were sampled from areas at least 1cm away from cancer.		
Construction	The TMA was assembled using a motorized version of the MTAI microarrayer (Beecher Instruments, Sun Prairie, Wisconsin) and constructed over 3 blocks (Block A-C). The cohort was divided into 3 case sets, assembled per block (38 cases per block, 19 African-American, 19 Caucasian). A fourth block (D) will be constructed to supplement missing cores throughout blocks A-C. Assembly Completion Date – 2013.		
Replicates	Each case was arrayed in quadruplicate to address tissue heterogeneity.		
Cores	<p>Block A – total 369 cores (1x orientating liver, 24x prostate cell lines, 40x normal tissues, 152x tumor, 152x non-neoplastic cores)</p> <p>Block B – total 370 cores (2x orientating liver, 24x prostate cell lines, 40x normal tissues, 152x tumor, 152x non-neoplastic cores)</p> <p>Block C – total 371 cores (3x orientating liver, 16x prostate cell lines, 48x normal tissues, 152x tumor, 152x non-neoplastic cores)</p>		
Diameter	0.6mm	Thickness	5µm
Layout	<p>Block A-B: 25 cols x 20 rows (<i>rows 5, 10, 15 intentionally left blank</i>)</p> <p>Block C: 24 cols x 19 rows (<i>rows 5, 10, 15 intentionally left blank</i>)</p>		
Quality Control	Initial section and every 20 th section thereafter is stained with hematoxylin and eosin p27 reactivity confirmed prior to sampling.		
TMA Slide Types	<p>Unstained: unstained paraffin TMA slide for final analysis (>90% cores present).</p> <p>Trial: unstained paraffin TMA slide for trial analysis (titrating Ab and experiment conditions) or control (10-25% cores missing)</p>		
Notes	Scans of H&E and p27 available for review.		