PATHOLOGY CORE
Tissue Microarray (TMA)

The Pathology Core Laboratory at CHOP provides services for both CHOP and external researchers. Our Galileo CK3500 Tissue Arrayer from ISENET allows us to create custom tissue micro arrays (TMAs) from paraffin embedded tissue blocks for our customers:

- Core sizes include 0.6mm, 1.0mm, 1.5mm, and 2.0mm in diameter

- Recommend a maximum of 150-200 cases per array block (0.6mm)

- Assistance with array design and layout

- Sectioning of the array block and staining when needed

- Digital slide scanning and tools for array segmentation and image analysis

We initially consult with PI and/or pathologists for the initial design of the array. We can help with prospectively collecting and processing of samples for ongoing studies. Samples are typically processed and slides are faced for an H&E stain which a pathologist can assess for quality and annotate for array punching. Once the array is created we can also assist with sectioning and staining for targets of interest. We have an Aperio CS-O and Aperio FL slide scanners for creating digitized virtual slides that can be accessed on-line for review off site. We also have access to image analysis software for quantitation (Aperio image analysis suite, Visiopharm).

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