About Us

The Pathology Core provides histopathology, Immunohistochemistry, tissue microarray, and imaging services to researchers at Children’s Hospital of Philadelphia Research Institute and the surrounding academic community. Our technical and professional staff has extensive experience in all aspects of tissue processing, histological techniques, antibody work-up, and morphologic analysis. In addition, we offer tools to facilitate high throughput analysis of tissue sections and imaging. The Pathology Core is located on the 11th floor of the Leonard and Madlyn Abramson Pediatric Research Center in room 1106. Our staff is available for consultation, troubleshooting, and assistance in planning and interpreting experiments histopathology and related techniques.

Histopathology

Histopathology services are provided by three full time histotechnicians with extensive clinical and research experience. The Pathology Core is equipped with two tissue processors, microtomes and embedding stations. A cryostat is available for frozen sections. There are storage areas for wet tissue, blocks, and slides. We also have refrigerator/freezer storage for tissue and antibodies (4, -20, and -80degrees).

Histopathology Services
• Processing and Embedding of wet tissue
• Unstained Slides
• Routine Stains (H&E)
• Frozen Sections
• Special Stains
  • Trichrome
  • Iron (Perl)
  • Congo Red
  • Nissl Stain
  • Plus More
• Immunohistochemistry
• Antibody Work-up
• Fluorescent Staining
• TUNEL Labeling

Contact Us

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On the Web

corelabs.research.chop.edu/pathology

https://www.facebook.com/CHOPPathologyCore

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**Tissue Microarray**

Custom made Tissue Microarrays

- Constructed with a Gallileo Arrayer
- Cores from 0.6 to 2.0 mm in diameter
- Hundreds of cores on a single paraffin block
- TMA slides for IHC staining, In situ Hybridization

**Past Arrays**

- Neurodegenerative Disease Array
- Neuroblastoma
- Pediatric Brain Tumor
- Small Round Blue Cell Tumor
- Breast Cancer
- Glioma
- Rhabdomyosarcoma
- Atypical Rhabdoid Tumor

**Imaging**

Brightfield as well as fluorescence imaging is available with our Leica DM4000B upright scope paired with a Spot RT/SE Slider Camera

- We perform whole slide scanning with our Aperio Scanscope CS-O and IF scanners. Whole slides are scanned and digitized to create “virtual slides.” Images are stored on a server making remote access possible. Image analysis tools are available for whole slide analysis of both brightfield and fluorescent images.

**Staining**

The pathology core provides a variety of special stains, immunohistochemical stains (IHC, and IF), as well as In situ Hybridization. We can help workup protocols for new antibodies or probes. We have two Leica Bond Autostainers (Bond Max and Bond Rx) that we use to automate IHC staining and RNAscope (ISH).