



## Contact Us!

**Dan Martinez, Research Director**

267-426-5635

[martinezd@email.chop.edu](mailto:martinezd@email.chop.edu)

**Tricia Bhatti, MD, Faculty Director**

215-590-1728

[bhatti@email.chop.edu](mailto:bhatti@email.chop.edu)

**Neena Panackal, Histology Technician**

267-426-7340

[panackal@email.chop.edu](mailto:panackal@email.chop.edu)

**Socrates Agrio, Histology Technician**

267-426-5719

[agrio@email.chop.edu](mailto:agrio@email.chop.edu)

**Maisha Harris, Histology Technician**

215-590-9195

[harrism9@email.chop.edu](mailto:harrism9@email.chop.edu)

**Tyler Skinner, Histology Technician**

267-426-5634

[skinnert@email.chop.edu](mailto:skinnert@email.chop.edu)

## On the Web

<http://www.research.chop.edu/pathology>

<https://www.facebook.com/CHOPPathologyCore>



## Pathology Core Laboratories

Abramson Research Center

Room 1106

34th & Civic Center Blvd.

Philadelphia, PA 19104

267-426-5635

[martinezd@email.chop.edu](mailto:martinezd@email.chop.edu)

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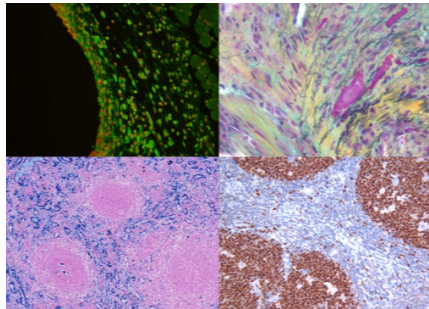
The Pathology Core provides histopathology, Immunohistochemistry, tissue microarray, and imaging services to researchers at Children's Hospital of Philadelphia Research Institute and the surrounding academic community. Our technical and professional staff has extensive experience in all aspects of tissue 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.

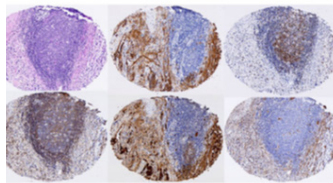
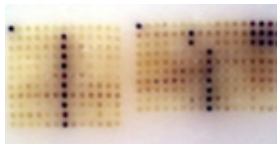
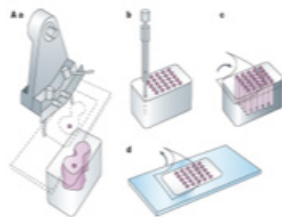
### Histopathology Services:

- Processing and Embedding of wet tissue
- Unstained Slides
- Routine Stains (H&E)
- Frozen Sections
- Immunohistochemistry
- Antibody Work-up
- RNAscope (ISH)
- Fluorescent Staining
- Special Stains: Trichrome, Iron (Perl), Congo Red, Nissl Stain, plus more



## 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



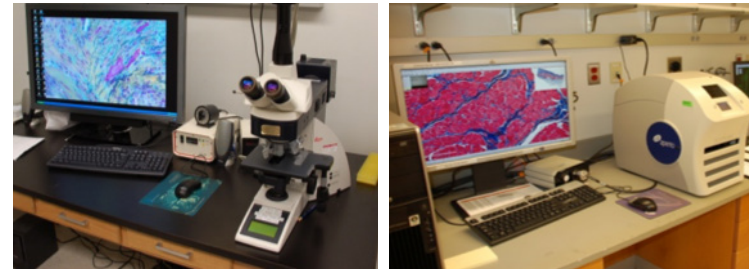
Neuroblastoma Tissue Microarray

### Past Arrays

- Neurodegenerative Disease Array
- Neuroblastoma Array
- Pediatric Brain Tumor Array
- Pediatric Normal Tissue Array
- Pediatric High Grade Glioma Array
- Pediatric Thyroid Tumor Array
- Atypical Rhabdoid Tumor Array

## Imaging

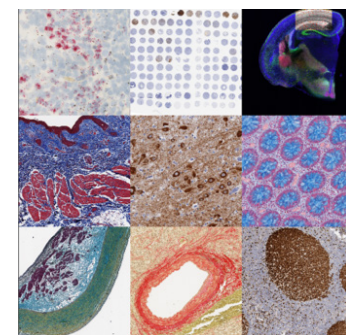
Brightfield as well as fluorescence imaging is available with our Leica DM4000B upright scope paired with a Spot RT/SE Slider Camera



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 RNAscope. 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).



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