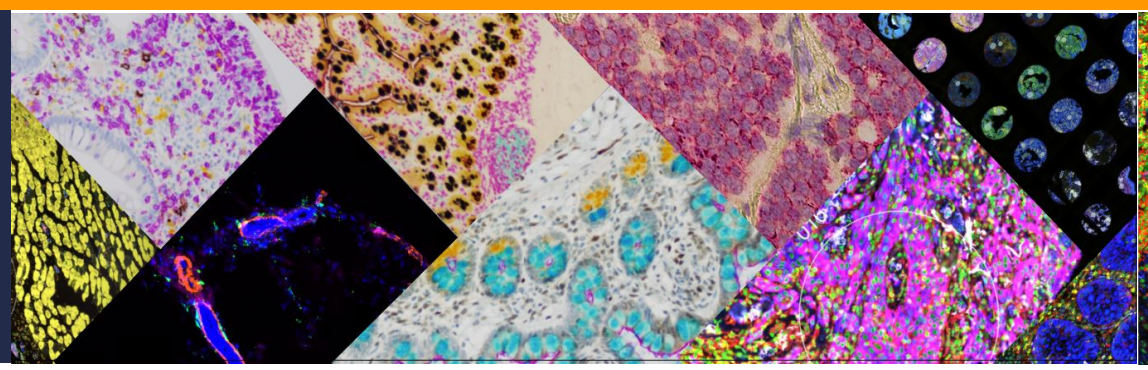
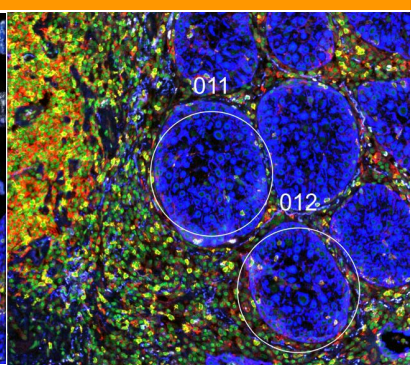
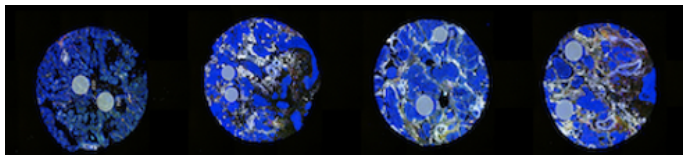
# Biorepository and Tissue Research Facility






## About Us

The Biorepository and Tissue Research Facility (BTRF) is the major core facility at the University for the procurement and processing of human tissue and other biospecimens for basic, translational, and clinical research. A central mission of the BTRF is to lower barriers to access and use of human biospecimens for researchers. This facility is the major conduit through which human tissue specimens are transferred from the Pathology, Surgery, and other clinical departments to research labs at the University of Virginia and is the processor of human biofluids in support of clinical trials at biobanking for UVA investigators. It also provides standard and advanced histology services, including paraffin embedding, paraffin sectioning cryostat sectioning, staining and microdissection, tissue microarray manufacture, whole slide digital imaging, and digital image analysis. In addition, this facility also provides tissue-based molecular analysis techniques, including single- and multi-color immunohistochemistry, RNA *in-situ* hybridization and spatial transcriptomics and spatial proteomic analysis. Expert histopathology support from Board-certified Anatomic Pathologists is provided for these activities through this Shared Resource.



*The BTRF mission is to lower bariers to access* ***human biospecimens*** *for the recearchers*

## Instrumentation

- Integrated cryogenic storage system
- Hamamatsu NanoZoomer S360
- Pathcore Flow
- Visiopharm ONCOTOPIX
- Ventana Discovery Ultra
- Pathology Devices semi-automated
- Tissue Arrayers
- GeoMX Digital Spatial Profiler (DSP)
- Robotic biomolecule extraction instruments (QIAGEN QIAcube)
- Thermo CryoStarNX50 research cryostats
- Thermo Scientific Nanodrop one spectrophotometer

## Our Services

**Specimen procurement and banking:**

- Processing and banking biofluid specimens from cancer patients and other patient cohorts of interest (e.g infectious disease)
- Prospective collection and processing of remnant surgical and autopsy tissue specimens for research studies and biobanking for future use
- Provide access to archival clinical formalin-fixed, paraffin embedded
  (FFPE) tissue specimens under the oversight of the Dept. of Pathology for basic and translational research.

**Clinical trials and Study Specific Biobanking Processing Services for UVA internal inition trials/biobanking**

- Biofluid and tissue specimen processing, aliquoting, storage and distribution for UVA investigators
- Provide supervised review and release of archival FFPE specimens from the Dept. of Pathology required for patients enrolled on clinical trials at UVA

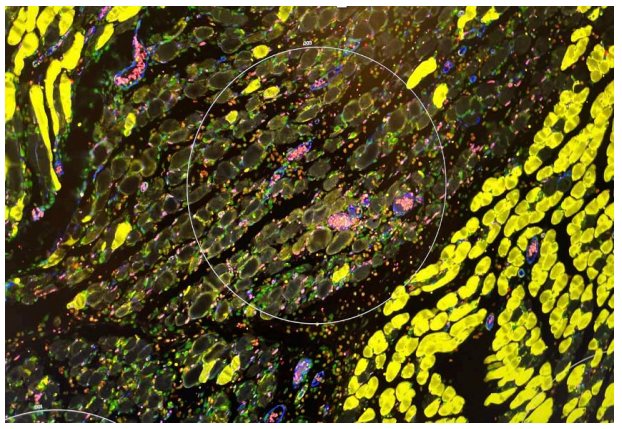
**Tissue Analytical Research Services**

- Conventional histology services
- Providing Tissue Microarrays from many type of cancer and normal tissues
- Immunohistochemistry & Chromogenic *in situ* hybridization services
- Digital Pathology imaging and analysis
- DNA/RNA extraction
- GeoMx DSP
- Pathology support
- Instrument usage
- Storage: vapor-phase liquid nitrogen, -80° and -20°C freezers

*Enhancing Research, Rigor and Reliability*

## Our Team

**Christopher Moskaluk, MD PhD** - Faculty Director
**Pat Pramoonjago, PhD** - Director
**Lavoisier Akoolo DMV, PhD** - Lab Manager
**Katie Barker, MS** - Lab Technician
**Paul Jung, BS** - Lab Technician
**Brody Alloway, BS** - Lab Technician
**William Faust, BS** - Lab Technician
**Mary Buettner** - Administrative Assistant



## Contact

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BTRF Website:
**med.virginia.edu/biorepository-and-tissue-research-facility/**

Request services on:
**uva.corefacilities.org/account/login**

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Room G710/G712/G714
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Charlottesville, VA 22908

UVA Health
SCHOOL OF MEDICINE