Biorepository & Tissue Research Facility (BTRF)

BTRF Services

- Protocol driven procurement and processing of human tissue and biofluid specimens from UVA Health System surgery, autopsy, inpatient and outpatient clinics for clinical trials, translational, and basic research
- Biorepository containing over 17,300 banked frozen specimens and 18,500 banked paraffin blocks representing a wide range of human cancer and normal tissues
- Access to archival tissue specimens in the UVA Department of Pathology
- Tissue processing for viable cell freezing
- Peripheral blood leukocyte isolation from human blood samples
- Pathologist guided tissue macrodissection to enrich for specific cell types
- Laser microdissection equipment (user operated)
- RNA/DNA/protein isolation from tissue & blood samples
- Histology services for human tissues:
  - Paraffin embedding
  - Histologic sectioning & staining
  - Frozen sections
- Immunohistochemistry (human & mouse tissue)
  - Stem cell markers
  - Markers of cell proliferation
  - Markers of apoptosis
  - Markers of differentiation
  - Custom immunohistochemistry (single & double staining)
- RNA in situ hybridization
- Tissue microarray slides and custom TMA construction
- Research cryostat (user operated)
- Photomicroscopy equipment (user operated)
- Whole slide scanning
- Freezer storage of biospecimens

Human tissue samples

- Tissue microarrays
- Laser microdissection
- Macrodissection

Biofluid processing

PBMC Isolation

Immunohistochemistry

- Single staining
  - EGFR
  - Membrane
- Double staining
  - Mouse tissue
  - Human tissue
  - Amoeba
  - Leptin

Chromogenic RNA in situ hybridization on tissue samples

- (Affymetrix QuantiGene® View RNA Assays for Chromogranin and GAPDH, ACD RNAscope® assay for High-Risk HPV)

Chromogranin
GAPDH
High-risk HPV

For probe information go to:

Visit us at: www.medicine.virginia.edu/research/cores/bio-tissue-core