

## Diseased Tissue and Normal Controls

BioreclamationIVT collects high quality, fully characterized, diseased and normal tissue from live donors, sourced from a large network of collection sites and research hospitals – both domestic and foreign.

- Existing specimen bank
  - 50,000+ specimens
  - Rapid turnaround time of data and specimens
  - High resolution H&E slide images available
- Staff pathologist on-site
- Custom & prospective collections
- IRB approved protocol and fully consented donors
- 100% Product guarantee

## Industry Leading Tissue Network

→ Ask for a customized inventory report to select samples from our extensive on-site tissue specimen bank.

### Network Advantages

#### Fully Characterized

Tissue specimens are fully characterized, including:

- Clinical medical history
- Surgical data
- Pathology report
- TNM Staging
- Histological slide images

### Pre-Treatment Specimens

BioreclamationIVT's extensive network enables us to collect from late-stage, pre-treatment donors.

### Staff Pathologist

Our on-site staff pathologist reviews all incoming specimens to verify diagnosis, perform histological analysis and capture cancer and necrosis percentage.

### Tissue Preservation Options

- Flash frozen
- Formalin Fixed Paraffin Embedded (FFPE)
- Fresh collection / Immediate shipment

### Customization

#### Custom Collections

Custom collections can be arranged to meet your study requirements. Donor demographics, special sample handling procedures and data requirements can be specified.

#### Inclusion / Exclusion Criteria

Inclusion and exclusion criteria can be specified such as age, gender, stage, medication, diagnosis, etc.

#### Matched Sets

Diseased / Cancerous tissues and Normal adjacent tissue can be provided from the same donor, along with blood, plasma, serum and other biological specimens.

# Patient Populations

## Oncology

- |            |              |            |              |              |
|------------|--------------|------------|--------------|--------------|
| - Adrenal  | - Colon      | - Liver    | - Pancreatic | - Stomach    |
| - Bladder  | - Esophageal | - Lung     | - Penile     | - Testicular |
| - Brain    | - Intestinal | - Lymphoma | - Prostate   | - Thyroid    |
| - Breast   | - Kidney     | - Myeloma  | - Rectal     | - Tongue     |
| - Bone     | - Laryngeal  | - Oral     | - Sarcoma    | - Uterine    |
| - Cervical | - Leukemia   | - Ovarian  | - Skin       |              |

## Non-Malignant

- |                |                |                        |                    |
|----------------|----------------|------------------------|--------------------|
| - Appendicitis | - BPH          | - Benign Tumors        | - Colitis          |
| - Diabetes     | - Osteoporosis | - Rheumatoid Arthritis | - Uterine Prolapse |

➔ **These lists are not all-inclusive. Please contact us if your study requires other sample types.**

## Products and Processing Services

- Primary tumor and other diseased tissues
- Normal adjacent tissue
- Tissue micro-arrays (FFPE and frozen)
- Protein lysate arrays
- "Dip Sticks"
- Genomic DNA
- Total RNA & mRNA extractions
- Protein lysates
- Tissue sectioning / Slides (unstained, H&E, curls, OCT embedding)
- Blood, serum, plasma and other biologicals can be matched to tissue specimens.
- Custom testing
  - Immunohistochemistry
  - Targeted gene sequencing
  - Gene expression profiling

➔ **Ask us about our other tissue collection capabilities, including:**

- Whole tissues (brain, liver, lung, kidney, etc)
- Skin punch specimens (shipped fresh or frozen)
- Colonoscopy specimen collections (shipped fresh or frozen)
- Biopsy tissues
- Liposuction and plastic surgery remnants

## Specimen Quality

As a part of BioreclamationIVT's Quality Policy, only products and services of the highest quality are provided to our clients.

- Frozen and FFPE tissues are preserved within 15-30 minutes of collection.
  - Frozen on Liquid Nitrogen
  - FFPE on 10% buffered formalin
- Diagnosis information is confirmed by at least 3 medical pathologists, including BioreclamationIVT's staff pathologist.
- Quality control of each specimen, including cancer percentage, necrosis, and other physical factors
- Molecular quality control ensuring high RNA Integrity Number (RIN)
- Cross contamination is prevented at all times, including storing specimens in separate containers and never co-mingled in Liquid Nitrogen.

## Ethical Collections

BioreclamationIVT ensures that the tissue collection network operates in a fully ethical and transparent manner.

- IRB approved protocols and collection sites
- Fully consented donors
- De-identified specimens
- International research network operates to domestic standards and BioreclamationIVT quality policies.

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