



# Your Partner in Personalized Medicine Research

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The surge in research and development activities focused on personalized medicine coincides with the rapidly decreasing cost of human genome mapping and a greater understanding of disease heterogeneity. As a researcher, you struggle with high attrition rate based on lack of clinical efficacy. It is crucial to your studies to utilize ethically collected, well-characterized human specimens and comprehensive tissue-based research services.

Look to BioIVT for expertise in the processes required for the ethical acquisition of biospecimens that cover a wide range of disease states and the protocols needed for the production of reliable data.

## We offer:

- Unparalleled access to over 200 IRB-approved collection sites
- Access to a comprehensive array of biospecimens across multiple sample types and disease indications
- Standardization and quality control coupled with the ability to customize collections to meet your specific criteria and research needs



## Partner with us to accelerate your research!



### Quality

*Standardized collection protocols*

*Rigorous quality control processes*



### Customization

*Unique cohorts, format or data sets designed to meet fit-for-purpose solution*



### Expertise

*Board-certified pathology reviewed*

*Regulatory traceability for each case*



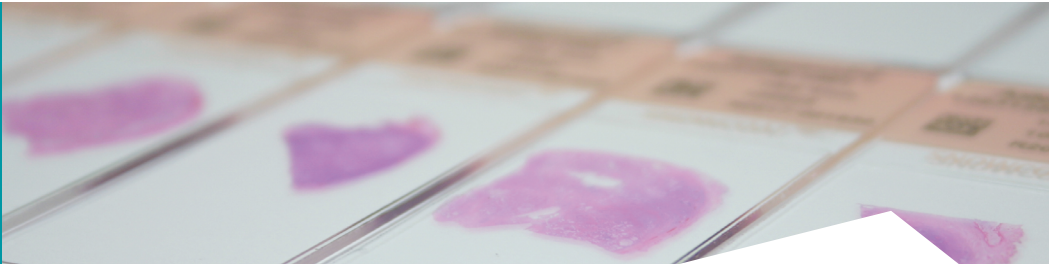
### Reliability

*Existing clinical sample bank of over 300,000 samples*

*Experience in collection of over 20 different tissue and biofluid formats*

**Have a custom project? Ask about our PHASEZERO<sup>®</sup> Research Services.**

View our biospecimen and cell inventory  
at [www.bioivt.com](http://www.bioivt.com)!



## ■ ASTERAND™ Human Tissue Specimens

Design based on the patient's genetic makeup or particular disease phenotype, personalized therapeutics or diagnostic tools mean significantly higher efficacy.

- Global tissue supply chain with extensive inventory of tissue product sets per indication
- Ethical and regulatory traceability for each case
- Expanded offering through the acquisition of Asterand Bioscience



## ■ Biofluids

Biofluids are available as both banked inventory or custom collection with associated clinical data such as medication, cancer or disease stage, clinical lab values such as cholesterol and liver function, RF value and viral serology.

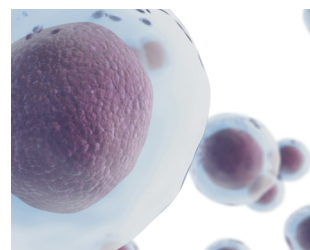
- Customized collections kits:
  - Donor specifications, protocols, collection containers and more
- Repeat donor collections for longitudinal studies
- Access to unique or rare patient populations, including pediatric and pregnant donors
- Matched sets from individual donors



## ■ Primary Cells and Cell Lines

We offer primary isolated cells from oncology and other diseased populations, useful in assay development and the identification of diagnostic and prognostic markers. In addition, we offer specific oncology related cell lines.

- Complete clinical data included with all samples
- Customizable PBMC collections for specific inclusion criteria
- Additional characterization available, including HLA typing



**Bank of 175,000 tissue samples, including:**

- Solid Tumors:
  - Breast (ER/PR/HER2)
  - Lung (EGFR and KRAS)
  - Colorectal (KRAS and BRAF)
- Bladder
- Cervical
- Endometrial
- Prostate
- Pancreas
- Liver
- Heme-Oncology

**Bank of 50,000 biofluid samples, including:**

- Whole blood / Serum / Plasma
- Urine
- Sputum
- Synovial fluid
- Cerebrospinal fluid (CSF)
- PAP smears
- Bone Marrow
- Cord Blood
- Oral Swabs / Saliva / Sputum
- Tears
- Urine, feces

  
**Cellaria**



We have partnered with Cellaria as a distributor of their innovative cancer cell models and growth media.

**Popular cell types include:**

Cancer Associated  
Fibroblasts

PBMC and Immune  
Cell Subsets

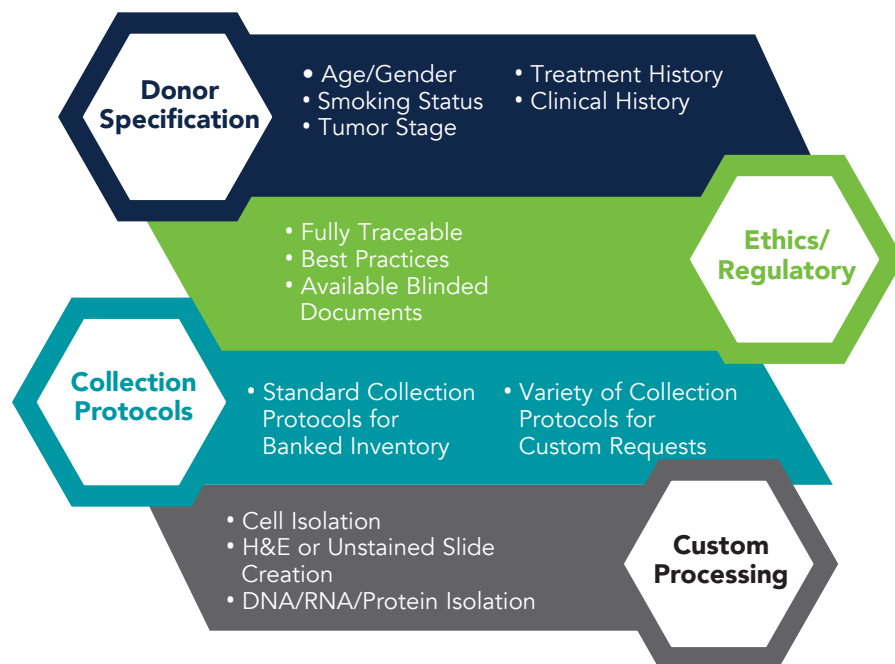
Characterized Cancer  
Cell Lines

Primary Disease  
State Cells

## Comprehensive Clinical Data

Critical to understanding and modeling novel personalized therapeutics and diagnostic tools is a comprehensive view of data to allow the identification of association networks across patient cohorts.

- Board Certified Clinical Pathologists independently review and confirm the data
- All samples are provided to researchers with extensive clinical data points and histologic information
- Clinical characterization information and quality analysis are available prior to purchase



## Screening & Genotyping

The incorporation of genetic analysis into the development of therapeutic agents and diagnostic tools relies on access to large collections of biospecimens with a specific genetic phenotype. Whether you need an effective approach for determining the status of various somatic mutations, hotspot variants, copy number variations or fusions in human tissue samples or a ready-banked inventory of prescreened specimens, we have your solution.

To address this, we are able to combine immediate access to large collections of human biospecimens with expertise in the design and execution of:

- HLA-genotyping
- qPCR
- Sanger/Pyrosequencing
- Next Generation Sequencing (NGS)
- IHC
- FISH

### For Inquiries:

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Brochure

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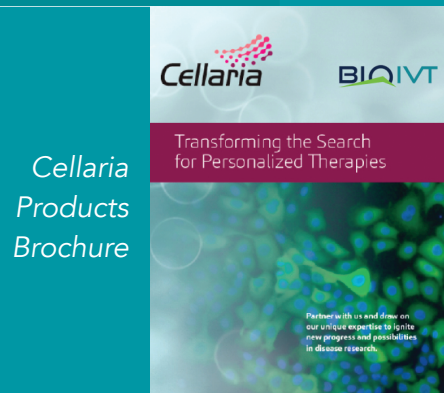
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