

# Step up your Preclinical Genomics initiatives with REPROCELL

## Build Patient Cohorts

REPROCELL's Bioserve Global Repository is the world's largest commercial human tissue bank, providing researchers with access to over 600,000 DNA, RNA, human tissue and serum samples derived from over 120,000 patients collected from four continents. Bioserve human tissue samples are consistently handled according to validated protocols established by the FDA/NCI guidelines for biomarker research. All samples are fully consented for broad genomic and proteomic use and are ethically collected according to HIPAA regulations and IRB approved protocols.



## Bioserve Global Biorepository Blood Based Collections

Asthma	Diabetes	Obesity
Cancer (post-treatment)	End-Stage Renal Disease	Osteoarthritis
Cancer (pre-treatment)	Hypertension	Osteoporosis
Clinically-confirmed Normal	Lipid Disorder	Psoriasis
Controls	Lupus	Rheumatoid Arthritis
Congestive Heart Failure	Metastatic Cancer	Stroke
COPD	Multiple Sclerosis	
Coronary Artery Disease	Neurological Diseases	

## Bioserve Fresh Frozen and FFPE Tissue Types

Adipose	Kidney	Pharynx	Thymus
Adrenal	Larynx	Pituitary	Thyroid
Aorta	Lip	Prostate	Tongue
Artery	Liver	Rectum	Tonsil
Bladder	Lung	Salivary Gland	Ureter
Blood	Lymph Node	Serum	Urethra
Bone	Mouth	Skeletal Muscle	Uterus
Brain	Muscle	Skin	Vagina
Breast	Nerve	Small Intestine	Vein
Cartilage	Omentum	Smooth Muscle	Vulva
Cervix	Ovary	Soft Tissue	
Colon	Pancreas	Spleen	
Esophagus	Parathyroid	Stomach	
Fallopian Tube	Parotid	Submandibular Gland	
Gall Bladder	Penis	Synovium	
Intestine	Peritoneum	Testis	

### We have it...



REPROCELL Bioserve has one of the largest commercial human tissue banks in the world. With more than 600,000 human samples, there is a good chance that our Global Biorepository already has what you need.

### Our network has it...



Through the Bioserve Network, we are partnered with many other leading biorepositories. This expands our ability to source material and ensures that we can acquire the samples you need.

### Or, we can collect it



With Bioserve's orphan disease network, rare human tissue samples are finally within reach. Through our Prospective Collections, we have custom procurement partnerships with specialty clinics all around the USA.

## Extract Genomic information and Discover new Biomarkers with our Molecular Biology Services

REPROCELL Bioserve offers a full range of accurate and cost-effective preclinical molecular services both as a complement to our Global Biorepository and as a stand-alone business to our customers across industry, research, and academic sectors of life sciences.

Our ISO 9001 certified molecular biology lab guarantee customer satisfaction through effective implementation of quality management system, including the continuous improvement of the system and its processes.

### DNA & RNA Extraction

- Whole Blood, Blood Clots, Mouthwash, Buffy Coats, FFPE, Serum, Buccal Swabs, Tissues, Saliva, and more
- Non-organic reagents
- Column-based capabilities
- Custom-developed protocols
- Multiple Quality control practices
  - Gel check, OD 260/280, TaqMan, pico green quantitation
- Tissues, Whole Blood, PAXgene tubes

### Gene Expression

- Real-time PCR
  - Life Technologies Viia7
- Mutation Analysis
  - Measure genomic DNA alterations
  - Insertions, deletions, copy number variations
- TaqMan qPCR
  - Predesigned assays
  - Quantitative gene expression
  - Nucleic acid quantitation

## Next Gen Sequencing

### Genomics Sequencing

Whole genome sequencing

Whole exome sequencing

Targeted region sequencing

Genotyping by sequencing

### Transcriptomics

Small RNA sequencing

LncRNA sequencing

Degradome sequencing

Transcriptome sequencing

### Epigenomics

Whole genome Bisulphate sequencing

Me DIP sequencing

ChIP sequencing

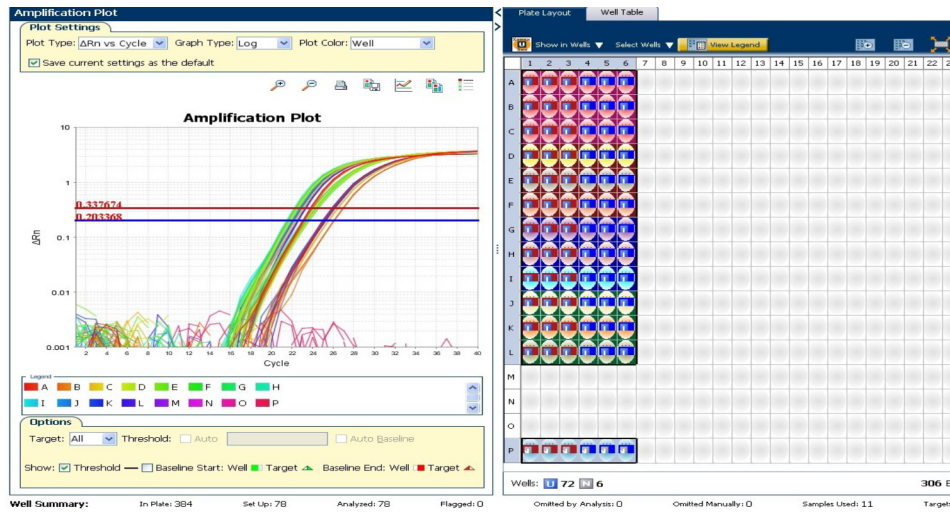
### Microbial Genomics

Microbial whole genome sequencing

Metagenomic shotgun sequencing

Metatranscriptome sequencing

16s/18s/ITS amplicon sequencing



## Gene expression analysis

REPROCELL provides a broad portfolio of Next Generation Sequencing (NGS) services, drawing on 25 years of experience in sequencing technologies, and supported by a bioinformatics team dedicated to helping you interpret your results.

Whole Genome

Methylome

Bisulfite Seq

Transcriptome

Targeted Panels

ChIP Seq

Exome

miRNA Seq

Metagenome

Small RNA

mtDNA Seq

Metatranscriptome

lncRNA

Degradome

Microbiome