# **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
Cancer (post-treatment)
Cancer (pre-treatment)

Clinically-confirmed Normal

Controls

Congestive Heart Failure

COPD

Coronary Artery Disease

Diabetes

**End-Stage Renal Disease** 

Hypertension Lipid Disorder

Lupus

Metastatic Cancer Multiple Sclerosis Neurological Diseases Obesity Osteoarthritis Osteoporosis

Psoriasis

**Rheumatoid Arthritis** 

Stroke

## **Bioserve** Fresh Frozen and FFPE Tissue Types

Kidney **Adipose** Adrenal Larynx Aorta Lip Liver Artery Bladder Lung Blood Lymph Node Bone Mouth Muscle Brain **Breast** Nerve Cartilage Omentum Cervix Ovary Colon **Pancreas** Esophagus Parathyroid Fallopian Tube Parotid Gall Bladder Penis

Pituitary
Prostate
Rectum
Salivary Gland
Serum
Skeletal Muscle
Skin
Small Intestine
Smooth Muscle
Soft Tissue

Small Intestine Smooth Muscle Soft Tissue Spleen Stomach Submandibular Gland

Pharynx

Synovium Testis Thymus Thyroid Tongue Tonsil Ureter Urethra Uterus Vagina Vein Vulva



Intestine

Peritoneum

#### 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 standalone 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

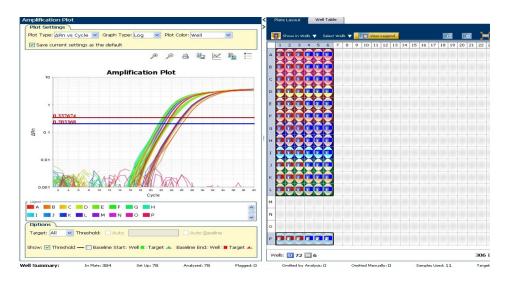
### **Gene Expression**

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

# **Next Gen Sequencing**

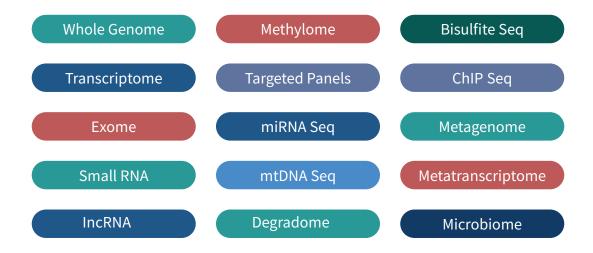
Genomics Sequencing	Whole genome sequencing
	Whole exome sequencing
	Targeted region sequencing
	Genotyping by sequencing
Transcriptomics	Small RNA sequencing
	LncRNA sequencing
	Degradome sequencing
	Transcriptome sequencing
Epigenomics	Whole genome Bisulphate sequencing
	Me DIP sequencing
	ChIP sequencing
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.









REPROCELL BRANDS



