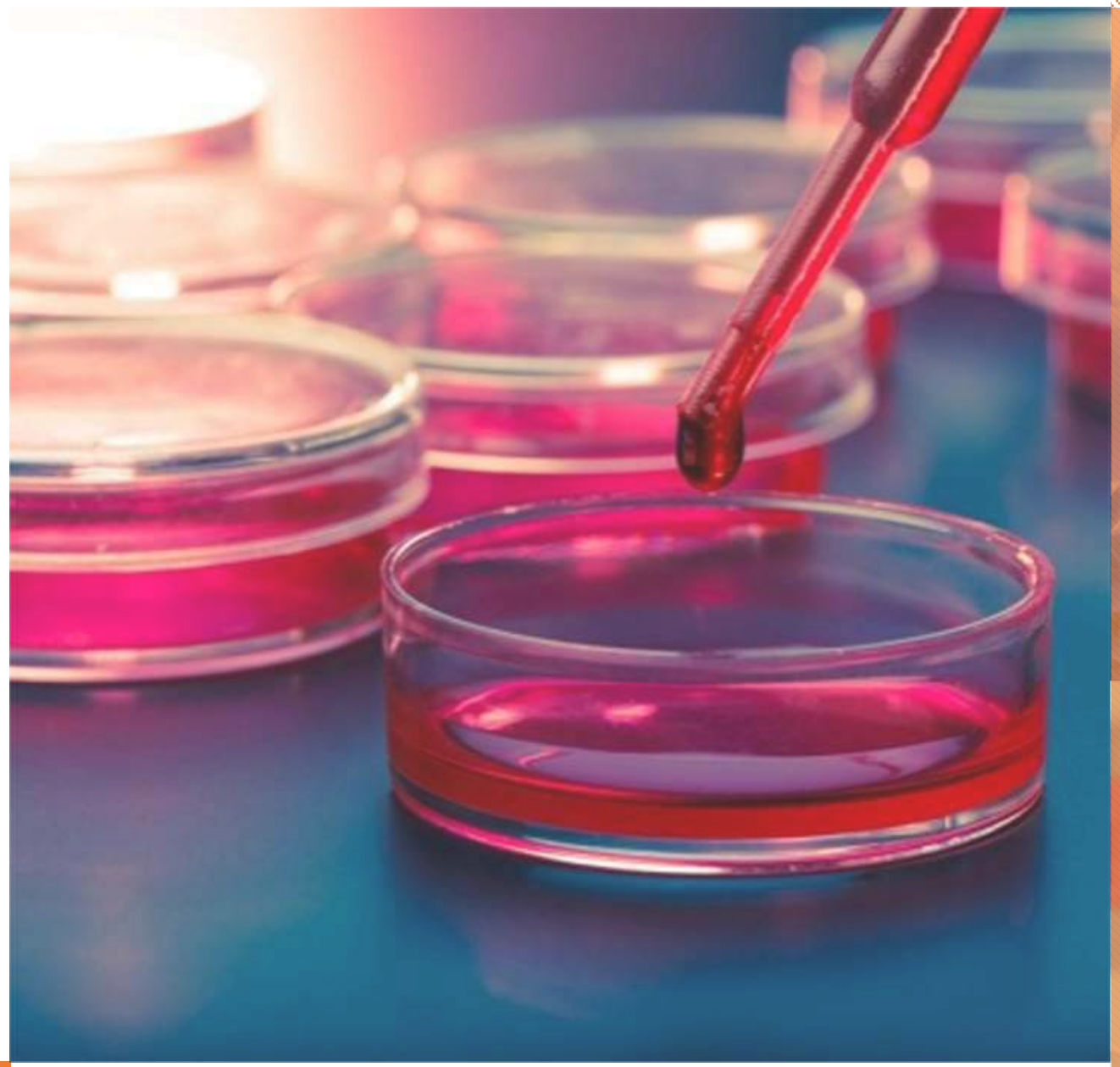


Creative Bioarray

Creative Bioarray

Your Global Partner for Cell & Tissue Research

Reliable Products and Services

Creative Bioarray

About Us

Founded in 2004, **Creative Bioarray** is an innovative biotechnology company whose mission focuses on developing unique technologies that provide global scientists with high quality products and satisfactory services to facilitate the investigation of life science researches.

☆ A strong and proven background in creative research and product development;

☆ Extensive business development and management experience;

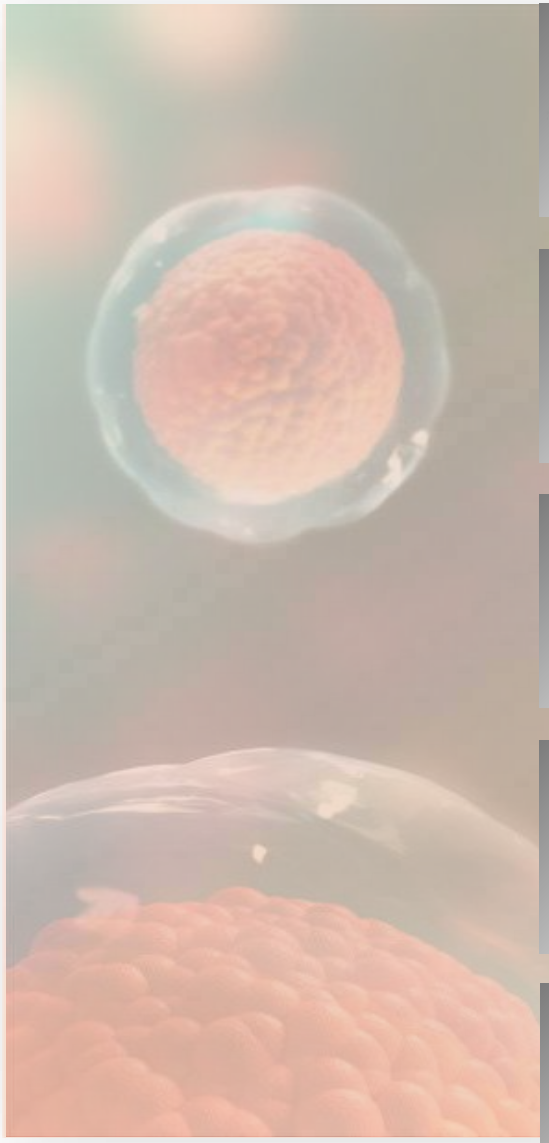
☆ A keen understanding of the needs of life scientists;

☆ Expertise in developing, marketing, and supporting consistent, high-quality research products;

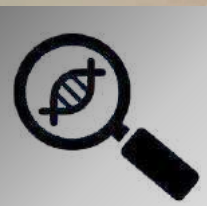
☆ A clear focus on the need to build and maintain lasting customer relationships through support, service, and close customer interaction.

Featured Products

Creative Bioarray



Cells includes tumor, primary, stem cells; cell related products include medium, growth factors, cytokines, and reagents.



Probes include chromosome, diagnostic, animal, bacteria, microRNA, and ISH probes.

Tissue Samples include tissue sections, blocks, blood, RNA, DNA and body fluid from Human, and Animal.

Exosome Research Products include exosome antibodies, exosome DNA-RNA extraction Kits, exosome isolation tools, and exosome standard.

Stains & Dyes include *in vivo* imaging dyes, live cell imaging dyes, protein & antibody labeling, fluorescent cellular staining dyes & ion probes, histological stains & dyes.

Tumor Cell Lines

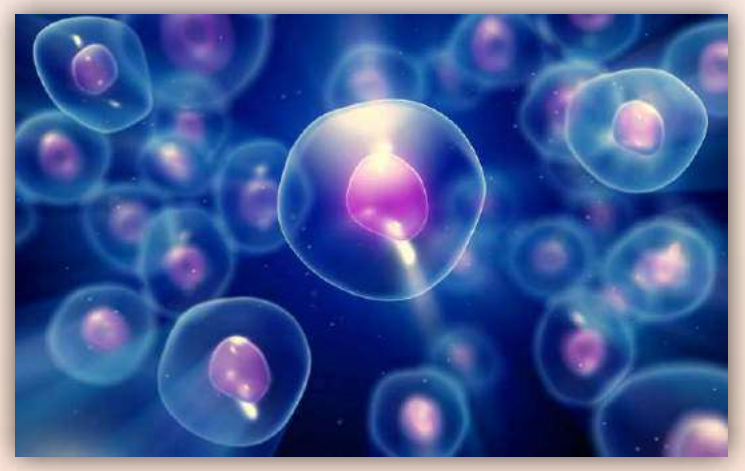
Creative Bioarray

Tumor cell lines are excellent in vitro models used in many biomedical research laboratories to study the biology of cancer, development and testing of anticancer drugs and development of new therapies.

Creative Bioarray's tumor cell line collection consists of **over 1,000 different human cell lines**, **covering 82 different types of tumors**. In addition to over 1,000 human tumor cell lines, many different types of animal tumor cell lines are also available.

Key Features

- Cell lines of human origin are authenticated by STR analysis.
- Cell lines of animal origin are authenticated by species-specific PCR.
- All cell lines are tested as mycoplasma, bacteria and virus negative.
- We offer next-working-day Delivery.



Primary Cells

Creative Bioarray provides many types of human & animal primary cells, covering a broad spectrum of tissue types for various research endeavors.

Categories

Adipose Cells	Bladder Cells	Blood Vessel Cells	Bone and Cartilage Cells	Bone Cells	Bone Marrow Cells	Brain Cells
Bronchial/Tracheal Cells	Cardiac Cells	Colon Cells	Dermal Cells	Epidermal Cells	Esophagus Cells	Female Reproductive Cells
Gallbladder Cells	Gastrointestinal Cells	Hair Cells	Hepatic Cells	Keratinocytes	Lung Cells	Lymphatic Cells
Male Reproductive Cells	Mammary Cells	Nervous Cells	Ocular Cells	Oral Cells	Pancreatic Cells	Peripheral Blood Mononuclear Cells
Placenta Cells	Prostate Cells	Reproductive System Cells	Pulmonary Cells	Renal Cells	Reproductive System Cells	Skeletal Cells
Skin Cells	Spleen Cells	Thyroid Cells	Tonsil Cells	Umbilical Cord Cells	Urethral Cells	Vessel Cells

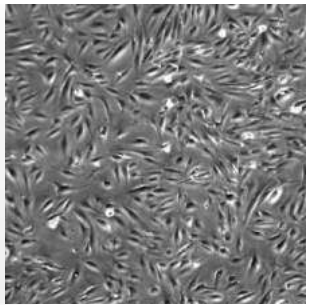
Benefits of Using Creative Bioarray's Primary Cells

Immortalized Cell Lines

With years of experience in cell immortalization, Creative Bioarray has developed the most comprehensive immortalized cell lines comprising of human immortalized cells, animal immortalized cells, and other immortalized cells.

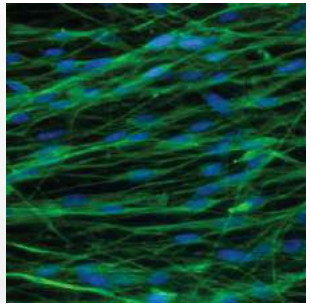
Immortalized Human Cell Lines

- Immortalized Human Astrocytes
- Immortalized Human Podocyte Cells
- Immortalized Human Pericytes
- Immortalized Human Microglia



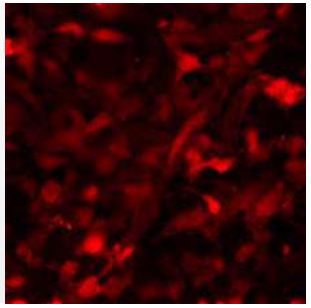
Immortalized Human Tumor-derived Cell Lines

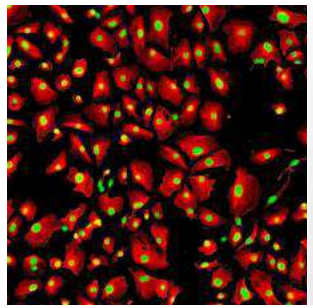
- Immortalized Human Vestibular Schwannoma Cells
- Immortalized Human Pancreatic Neuroendocrine Tumor Cells



Fluorescent Immortalized Cell Lines

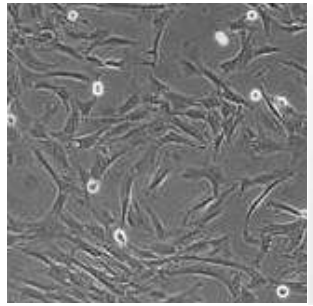
- Immortalized Human Microglia-RFP
- Immortalized Human Microglia-GFP
- Immortalized Human Retinal Microvascular Pericytes-hTERT-RFP





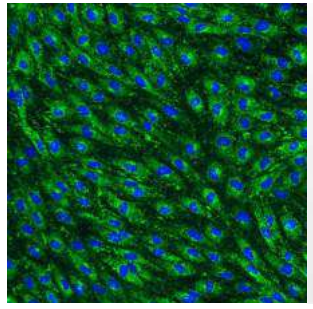
COVID-19 Related Immortalized Cell Lines

- Immortalized Human Alveolar Epithelial Cells
- Immortalized Human Pulmonary Fibroblasts
- Immortalized Human Pulmonary Microvascular Endothelial Cells



Immortalized Human Stem Cell Lines

- Immortalized Human Adipose-derived Mesenchymal Stem Cells-SV40T
- Immortalized Human Umbilical Cord-Derived Mesenchymal Stem Cells-SV40T

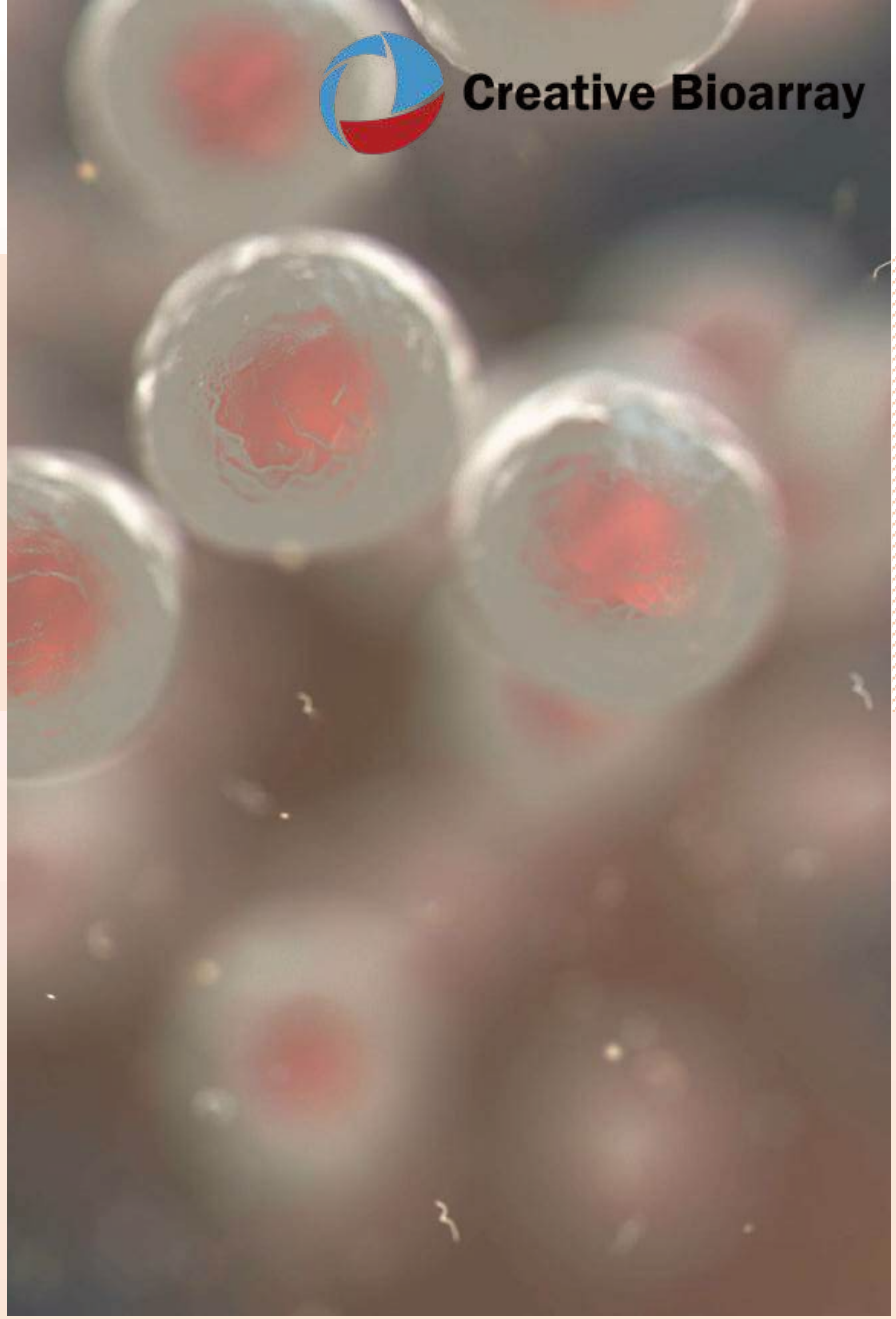


Immortalized Animal Cell Lines

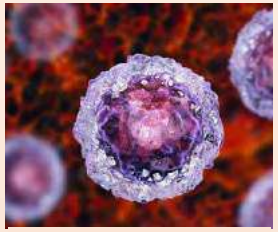
- Immortalized Rat Brain Microvascular Endothelial Cells
- Immortalized Mouse Hepatic Stellate Cells-SV40T
- Immortalized Porcine Hepatic Stellate Cells

Stem Cells

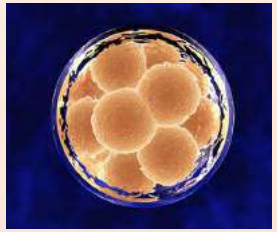
Creative Bioarray has a variety of age-, gender-, and tissue-specific stem cells. We are committed to providing you stem cells with comprehensive characterization, so you know you are using the best cells for your specific research needs.



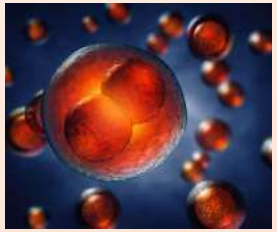
Categories



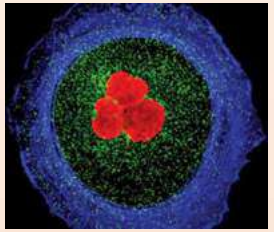
Adult Stem Cells



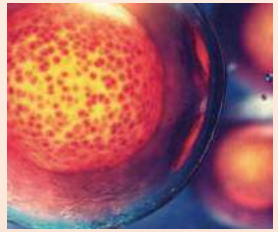
Embryonic Stem Cells



iPSC

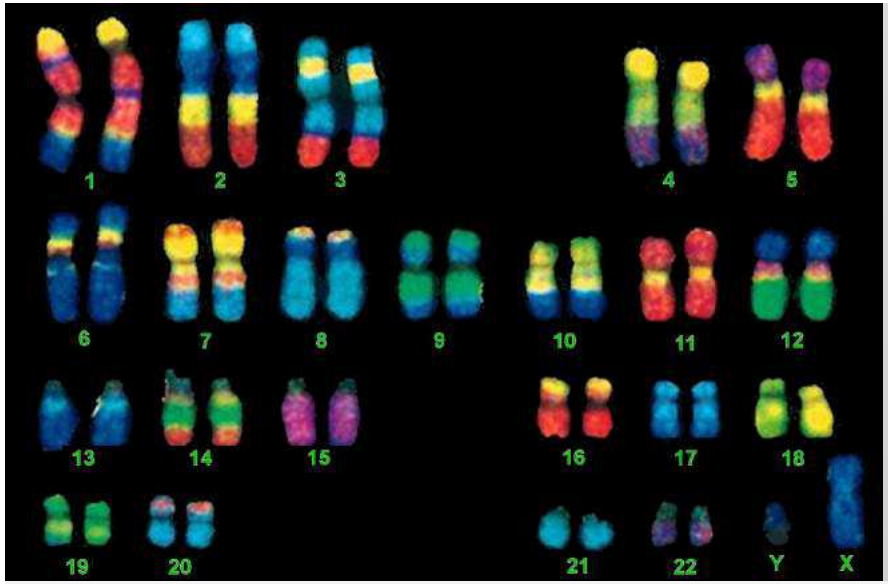


Tumor Stem Cells



Other Stem Cells

Probes



Creative Bioarray provides the most comprehensive list of FISH probes for rapid identification of a wide range of chromosomal aberrations across the genome.

Our CABR™ probes target relevant regions for a wide range of application, such as detection of gene amplification, deletion, translocation and chromosomal aneuploidies associated with tumor and genetic disease profiling; this makes molecular diagnostic technology important for clinical diagnosis and pharmaceutical industry.

Categories

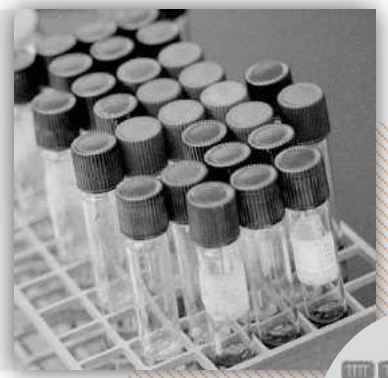
- *CABR*™ Chromosome Probes
- *CABR*™ Detection Probes
- *CABR*™ 2019 Novel Coronavirus Detection FISH Probes
- *CABR*™ CAR-T Cell Detection ISH Probes
- *CABR*™ Animal Probes
- *CABR*™ Bacteria Probes
- *CABR*™ microRNA Probes
- *CABR*™ ISH Probes
- Custom Probes

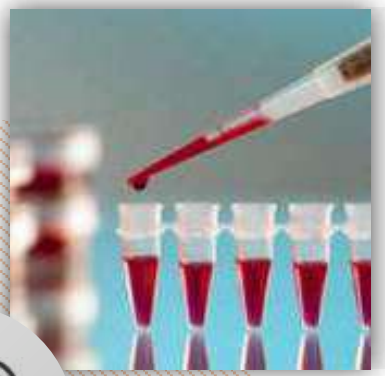
Biosamples

Creative Bioarray is an established, innovative provider of high-quality bio-specimens and expert services to pharmaceutical and biotech industry. Our inventory provides over ***10 million*** archived samples including:

Biofluids

- Urine, feces
- Saliva
- Synovial Fluid
- Cerebrospinal Fluid
- Sputum



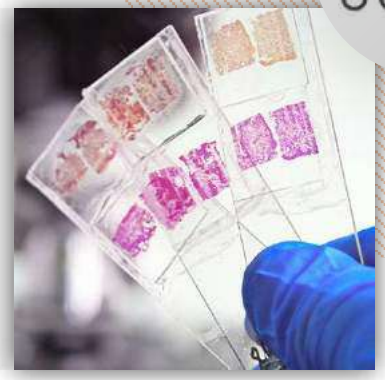


Blood

- Whole Blood
- Bone marrow
- Serum
- Plasma
- PBMCs

Frozen/FFPE Tissues

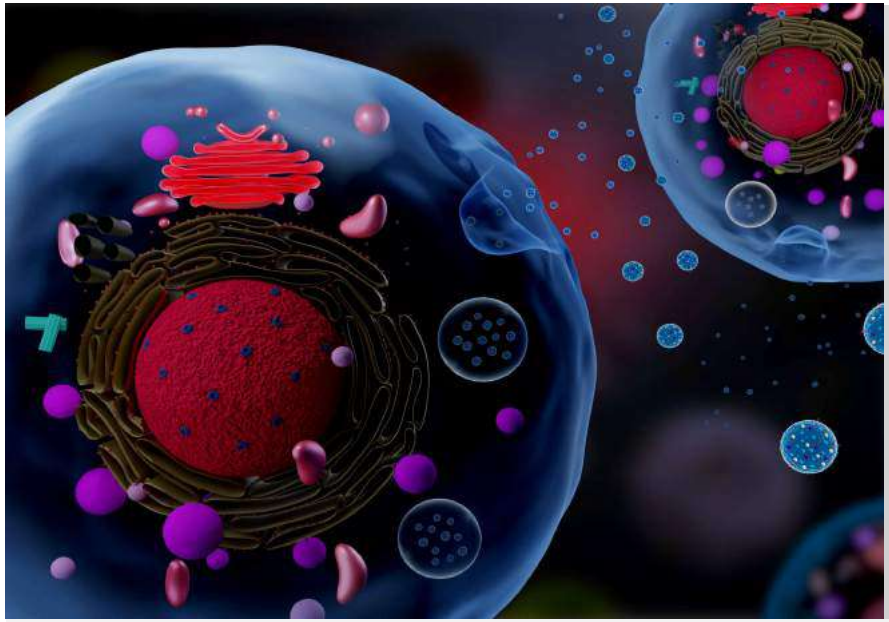
- Primary tumor tissues
- Metastatic tissues
- Diseased tissues
- Normal adjacent tissues (NAT)
- Normal postmortem tissues



Animal Tissue Bank

Multiple species available, including but not limited to Cynomolgus Monkey, Rhesus Monkey, Mouse, Guinea Pig, Hamster, Nude Mouse, Rat, Bovine, Cat, Chicken, Equine, Miniature Pig, Rabbit, Sheep.

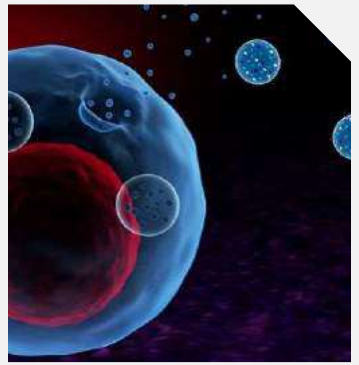
Exosome Research Products



Creative Bioarray offers the high-quality exosome research products to support your scientific research and advance your work. Get everything you need for studying and using exosomes, from isolation and characterization, to cargo profiling and engineering, and more. Supporting all aspects of your exosome research, our products enable quantitative, high-throughput, and high-quality studies.

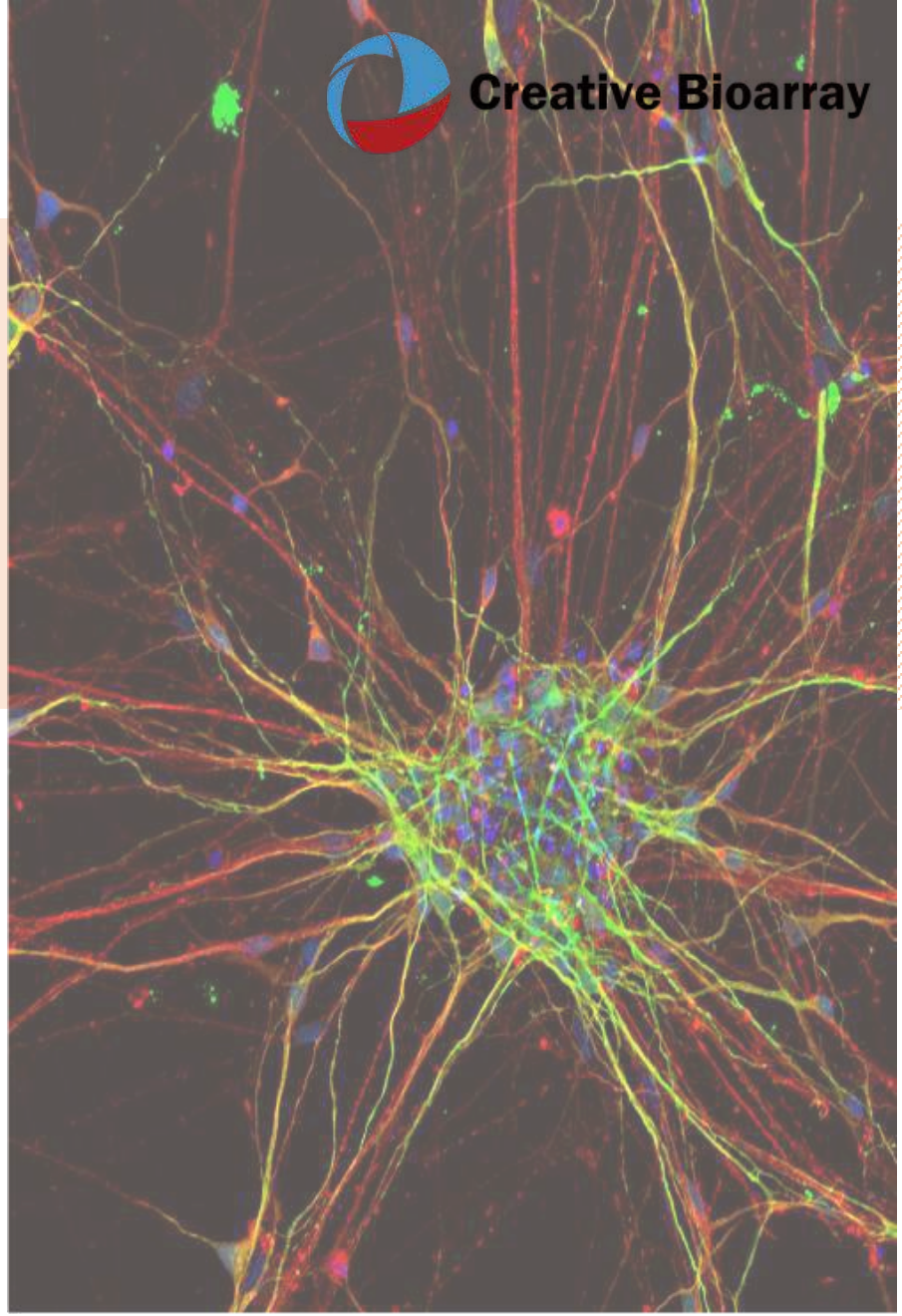
Categories

- Exosome Antibodies
- Exosome DNA-RNA Extraction Kits
- Exosome Isolation Tools
- Exosome Standard
- Fluorescent Exosome Standard
- Liquid Biopsy



Stains & Dyes

Visualization of cellular and tissue structure are critical to generate new knowledge for cell biology and to define the mechanisms of disease. Creative Bioarray offers a variety of fluorescent dyes and special dyes to help you better understand molecular biology and drug development research.



Categories

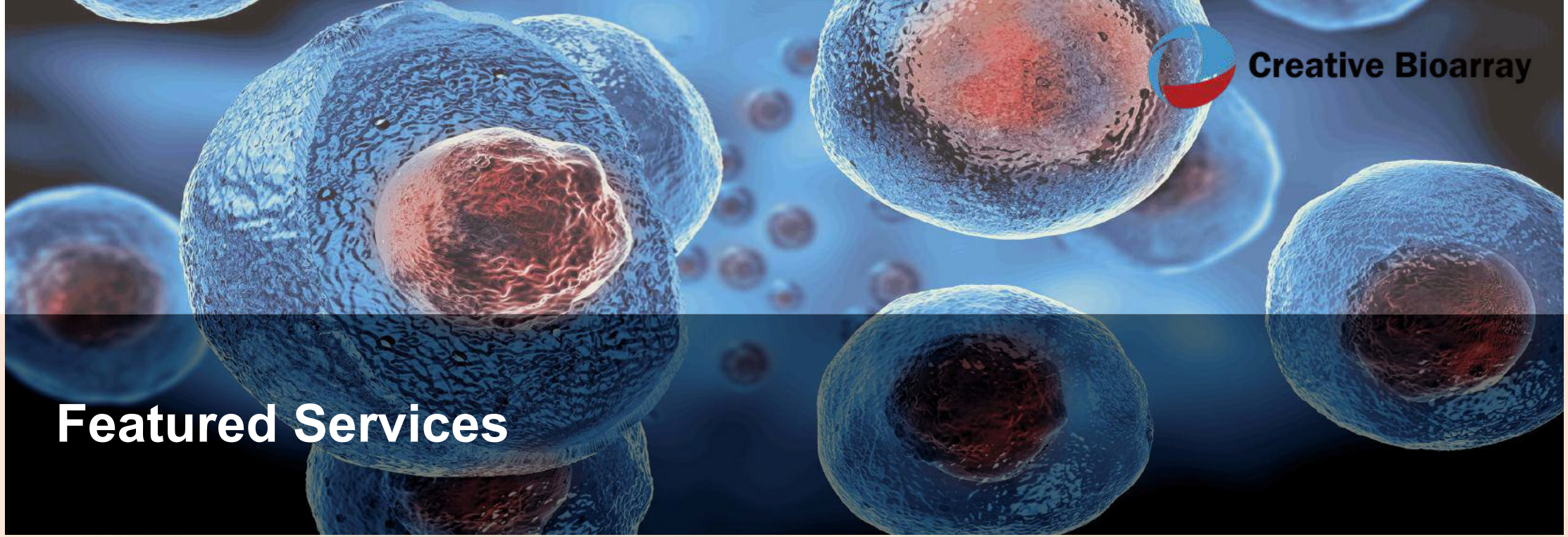

In Vivo Imaging Dyes


Live Cell Imaging Dyes


Protein & Antibody Labeling


Fluorescent Cellular Staining Dyes & Ion Probes


Histological Stains & Dyes



Featured Services

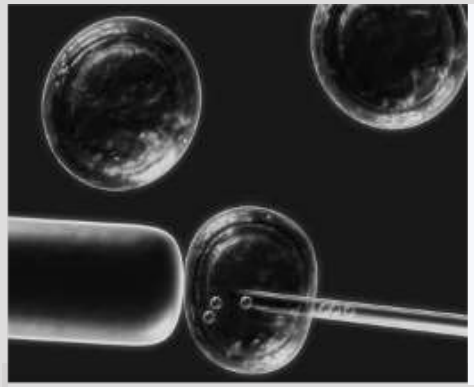
- Cell Services
- Exosome Research Services
- Cell-Based Drug Discovery Services
- Biosample Services
- Histology Services
- In Vivo Services

Cell Services

Creative Bioarray offers a wide range of cell services for global clients. Over 10+ years' experience in cell biology and cell culture, we can recommend strategies and provide contract services for cell-based assays. In addition, custom cell services also can be provided.

Cell Line Research

- Cell Line Authentification
- Cell Immortalization Service
- Cell Line-Based Assays



Stem Cell Research

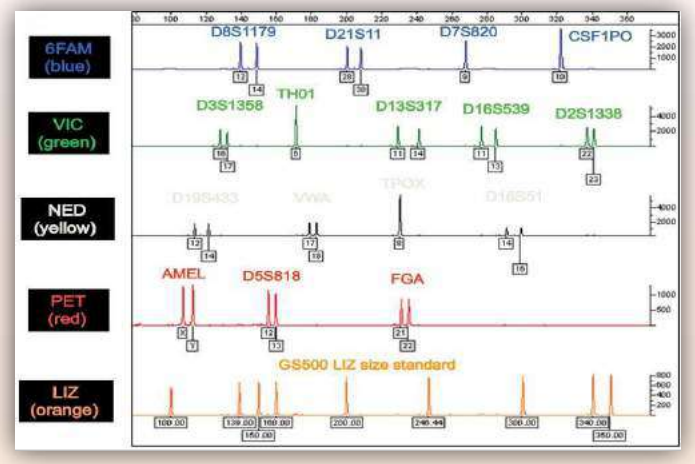
- Stem Cell Characterization
- Stem Cell Differentiation
- Stem Cell Assay Development and Screening

Custom Cell Service

We can provide cell services on different organs and tissues depending on your needs.

Cell Line Authentication Service

Creative Bioarray offers STR analysis service for you. STR analysis is critical for verifying the identity of human cell lines, ensuring uniqueness of the cell line and detecting laboratory errors such as misidentification and cross-contamination of lines.



Applications

- Establish an STR profile of a newly derived or reprogrammed cell line
- Monitor identity of a cell line
- Cross contamination detection and analysis

STR Analysis Workflow

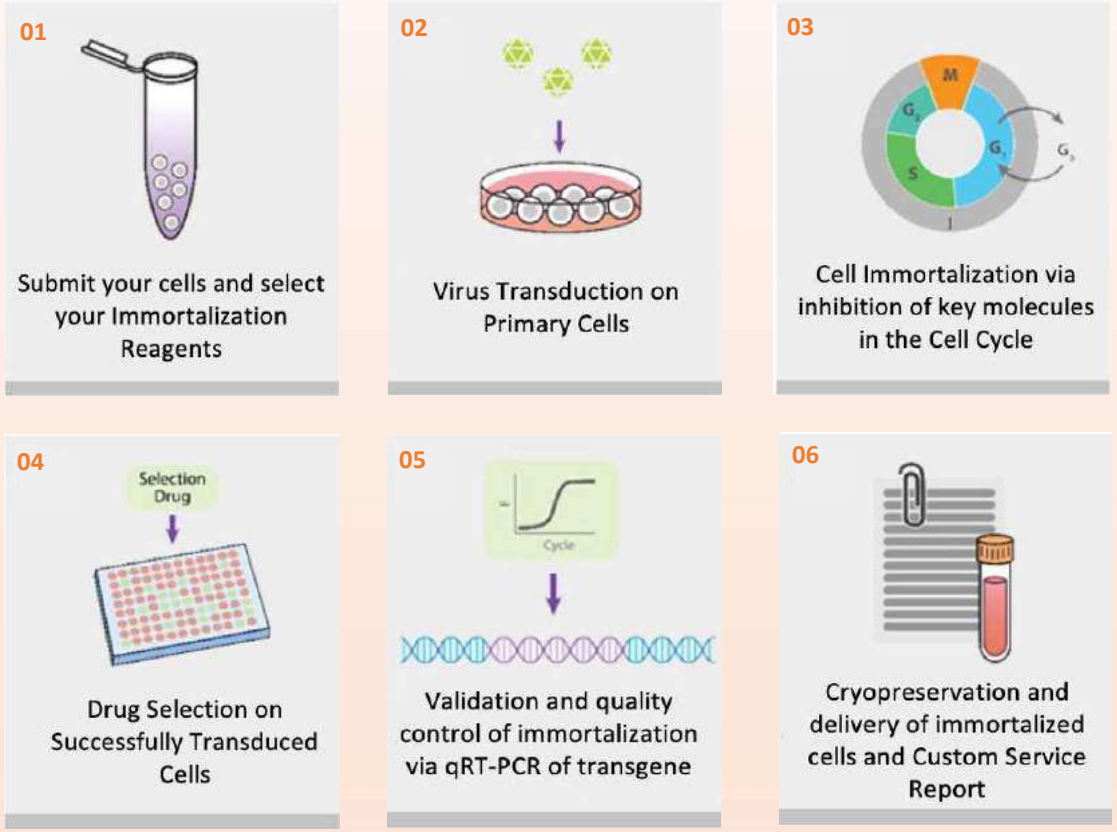
DNA Purification → Design Primer PCR → Prepare Sample for analysis → Perform Capillary Electrophpresis → Data analysis

Cell Immortalization Service

Creative Bioarray offers cell immortalization service. Based on our experienced scientist team and elaborate technical platforms, we have been able to successfully immortalize cells from any species and any tissue with the function you need.

Capabilities

- ✓ Several cell immortalization system including SV40, hTERT, EBV, HPV E6/E7, Ras, P53, Myc.
- ✓ Immortalized cell lines from any species and any tissues with the function you need.
- ✓ Cell passage screening for up to 30 passages.
- ✓ 2-3 months depending on immortalizing method, source cells, and species.
- ✓ Transgene expression by RT-PCR.
- ✓ Flexible! You can either provides us primary cells of interest or we will acquire them for you.



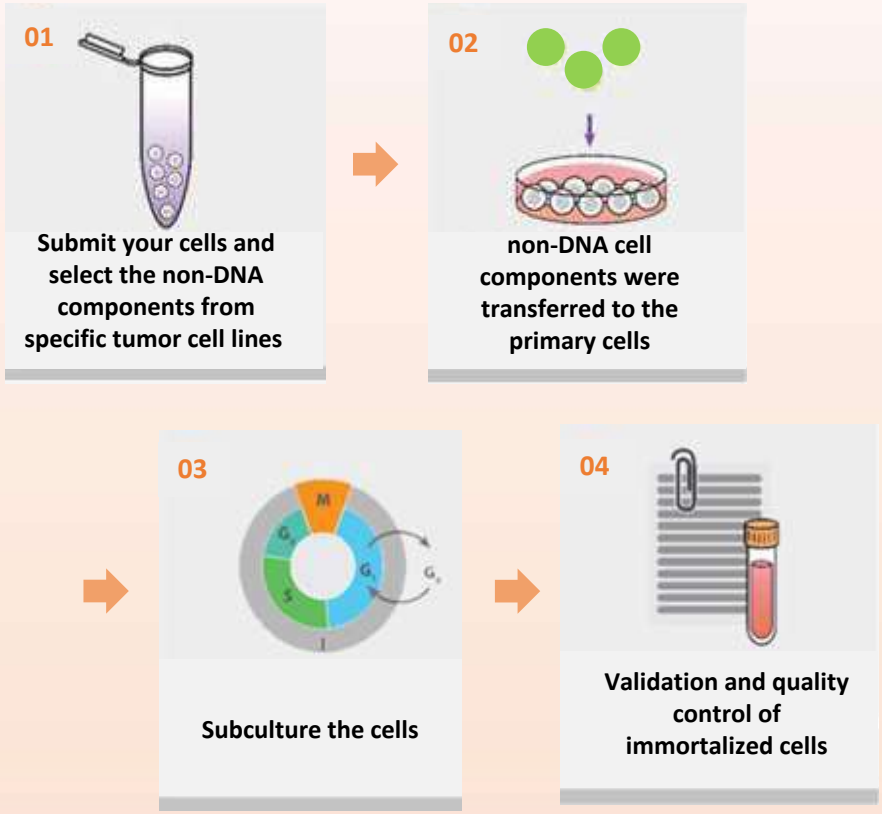
Epigenetic Induction of Cell Growth Service

-For Cell Immortalization

Creative Bioarray is offering epigenetic induction of cell growth service for the cell immortalization. The Epigenetic Induction of Cells Growth is a great method to establish the immortalized cell lines.

Highlights

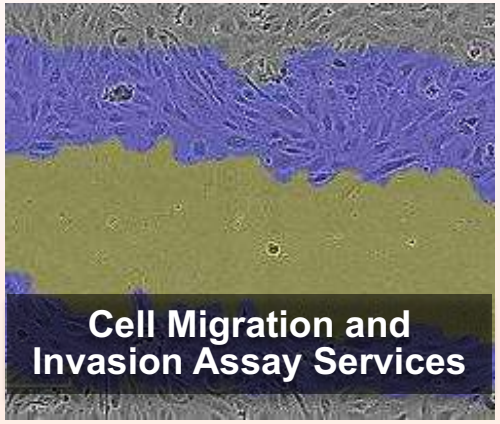
- ***No viral genes***
- No whole cell fusion unlike the production of hybridoma cell lines
- Transfer of only non-DNA components
- Human and animal cell lines
- Rapid 4-6 weeks turnaround time, including addition reporting
- Competitive pricing

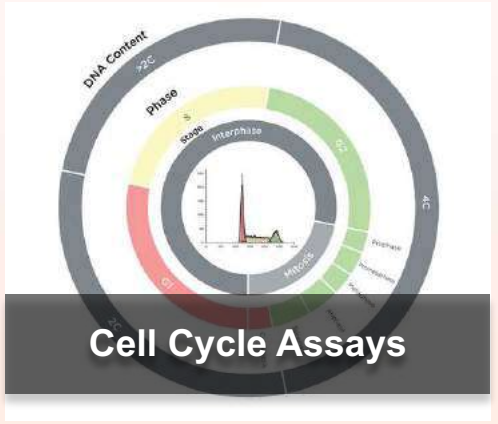


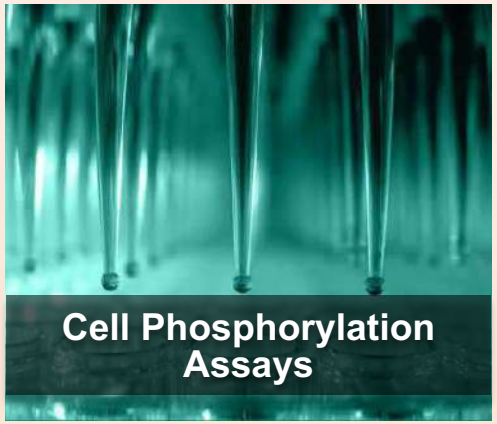
Cell Line-Based Assays and Services

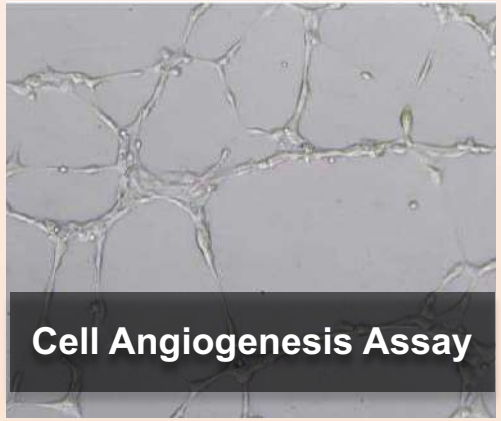
Creative Bioarray

Creative Bioarray offers a wide range of cell line testing and assays from cell viability and proliferation to cellular phosphorylation assays. With thousands of cell lines in our biobank and high standard technological platform, most cell assay services have been covered.





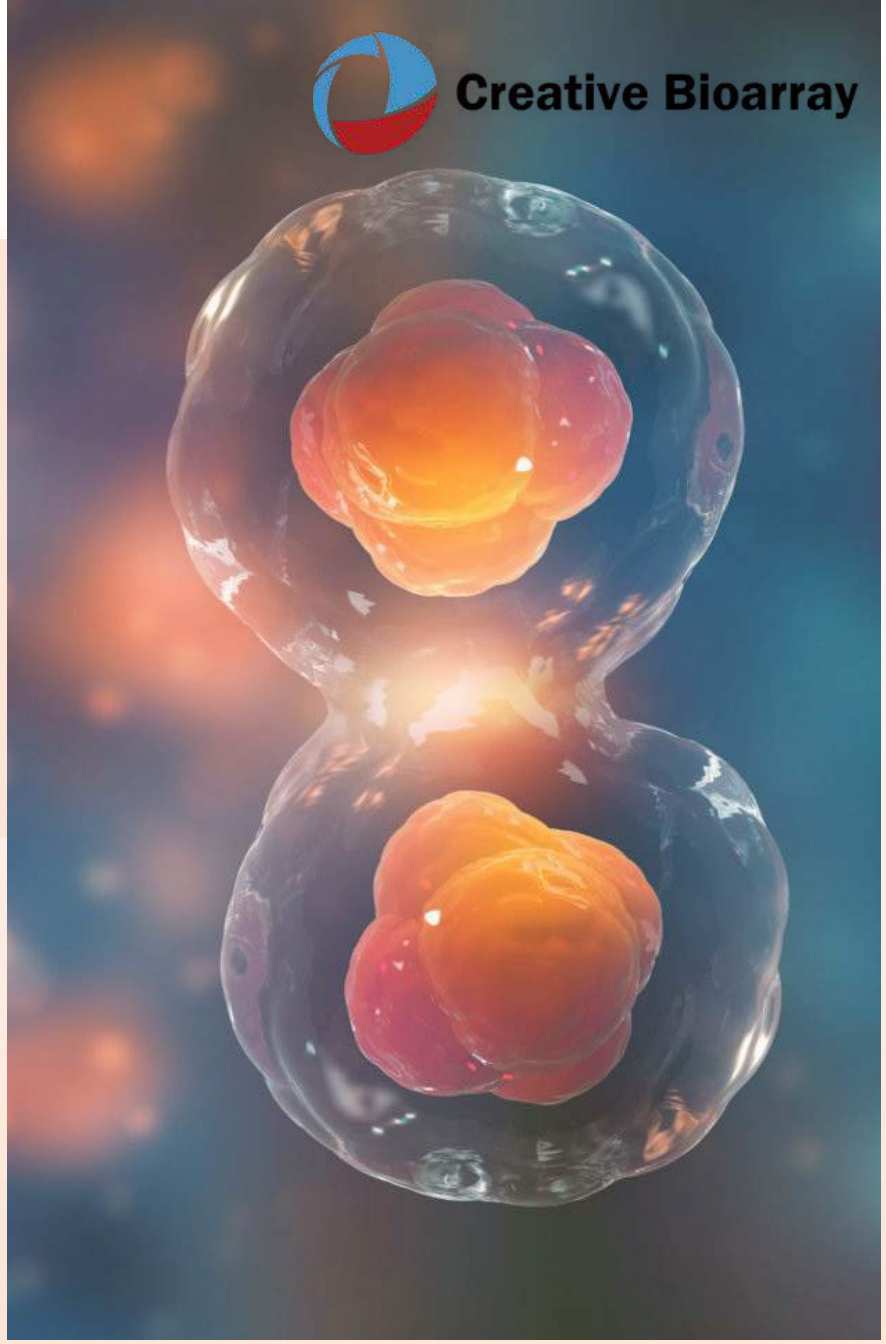




Stem Cell Research Services

Stem cell research is a fast-emerging field with rapid strides of progress and focus on human health due to its wide application in regenerative medicine and drug discovery. We are dedicated to use our extensive stem cell research experience and advanced platform to offer the best service to satisfy your demand.

- iPSC Generation
- iPSC Characterization
- iPSC Differentiation
- CRISPR/Cas9 System for iPSC
- MSC Services
- Stem Cell Assay Development and Screening



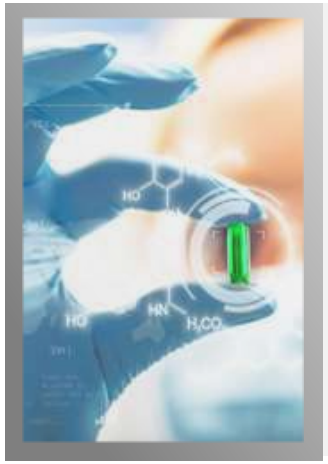
Cell-Based Drug Discovery Services

Creative Bioarray provides a wide range of cell-based drug discovery assays throughout the drug development process, including drug screening and profiling services, ADME and pharmacokinetic services, drug toxicity services, and services based on 3D cell culture models.

Our Services

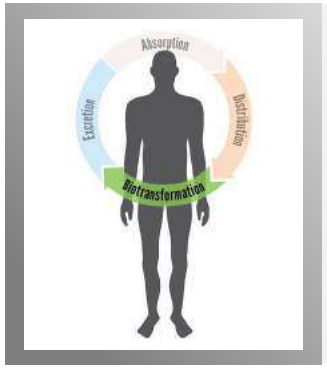
Cell-Based Screening and Profiling Services

- High-Throughput Screening
- High-Content Screening
- Specificity Profiling
- Selectivity Profiling
- Dose-Response Analysis
- Customized Services



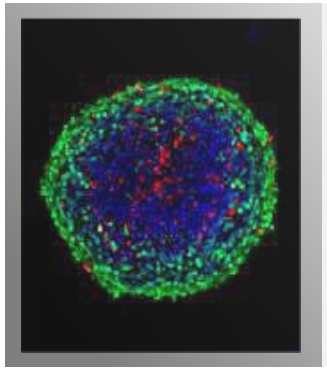
Drug Toxicity Services

- Hepatoxicity
- Cardiotoxicity
- Neurotoxicity
- Nephrotoxicity
- Genotoxicity
- Other toxicity tests



ADME and Pharmacokinetic Services

- HT-ADME Screening
- In-vitro Metabolism
- In-vitro Permeability & Transporter Assays



3D-Based Services

- 3D Cell Culture Service
- 3D-Based Drug Discovery Service
- 3D Oncology Service

ADME and Pharmacokinetic Services

Creative Bioarray provides a comprehensive series of in vitro ADME services, including high-throughput ADME screening, in vitro metabolism, in vitro permeability and transporter assays. With state-of-art instrumentation and data management system, we provide fast turnaround, high quality data at competitive prices.

 HT-ADME Screening	• CYP and UGT reaction phenotyping • CYP and UGT induction &inhibition • CYP time dependent inhibition assay	• Aqueous solubility • Metabolic stability • Permeability
 In-vitro Metabolism	• Hepatocyte/S9/Microsomal stability assay • Plasma stability assay • Metabolite identification • Pathway determination assay	• Protein binding • CYP inhibition • CYP profiling
 In-vitro Permeability & Transporter	• BBB-HCMEC/D3 assay • Caco-2 permeability assay	• MDCK permeability assay • Drug transporters

Our Advantages

- Fast screening and on-time delivery
- Customized protocols and assay design
- Detailed, concise report of result

Our scientific team have at least **10YEARS** of experience

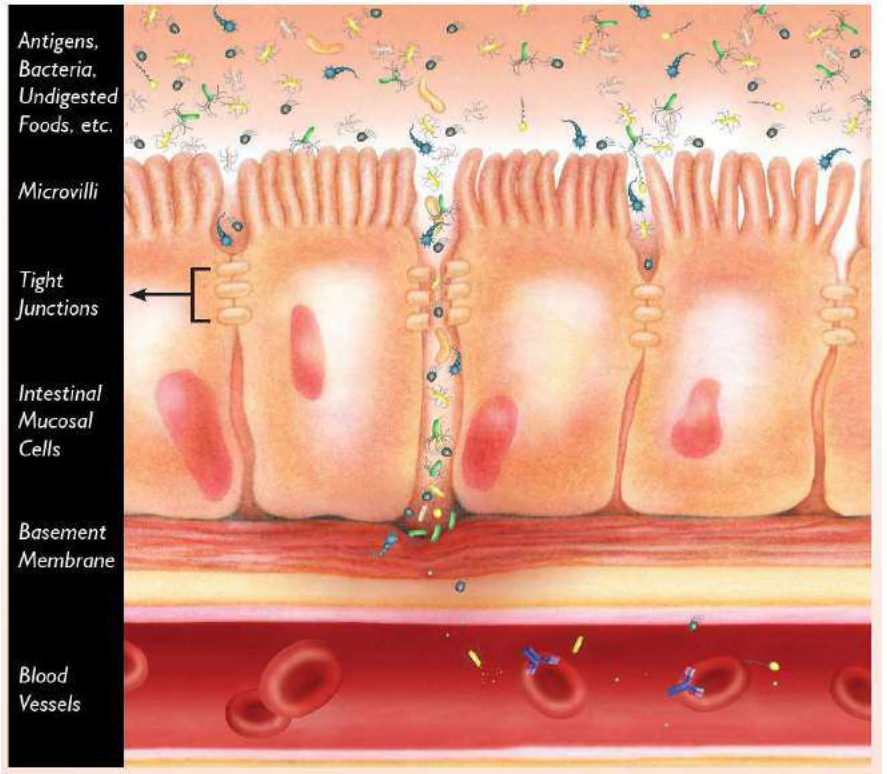
From Idea to IND

Target-to-hit | Hit-to-lead | Lead optimization | **Pre-clinical ADMET Services** | Clinical I-III | Commerical

In Vitro Permeability Assays

Creative Bioarray provides a number of in vitro permeability and transporter assays to evaluate drug permeability and predict drug absorption and distribution, including:

Assay	Description
Caco-2 permeability assay	**Caco-2 Cell Line** Direction: A>B and B>A; Incubation condition: 120 min at 37℃, 5% CO2; Detection method: LC-MS/MS; 5 test concentrations; Duplicate determination.
MDCK permeability assay	**MDCK-MDR1 Cell Line** Direction: A>B and B>A; Incubation condition: 120 min at 37℃, 5% CO2; Detection method: LC-MS/MS; 5 test concentrations; Duplicate determination.
PAMPA permeability assay	**Membrane: lecithin in dodecane (1.8%.w/v)** Incubation condition: 16h at 25℃; 5 test concentrations; Detection method: LC-MS/MS; Duplicate determination.



Other related assays and **transporter assays** are also available (including but not limited to P-gp, BCRP, BSEP, OAT1, OAT3, OATP1B1, OATP1B3, OCT1, and OCT2).

In Vitro Cardiotoxicity

hERG K^+ Safety Assay

The voltage-gated sodium channel **hERG** (Kv11.1) is important in determining the timing of the electrical repolarization of the action potential (AP) in ventricular myocytes. Inhibition of **hERG** activity can result in long QT syndrome, a disorder which could lead to sudden death.

Creative Bioarray provides the **hERG** safety assay with better consistency at a lower cost.

Test Model	**Channel**	**Kv11.1, hERG, I_{Kr}**
	Assay	IC_{50}
	Expression System	HEK293 or CHO
	Method	Whole Cell Patch Clamp
	Standard Time	1-2 weeks (<10cpds)
	Reference Compound	E4031, cisapride, dofetilide
	Target	QT-prolongation Torsade de Pointe(TdP)

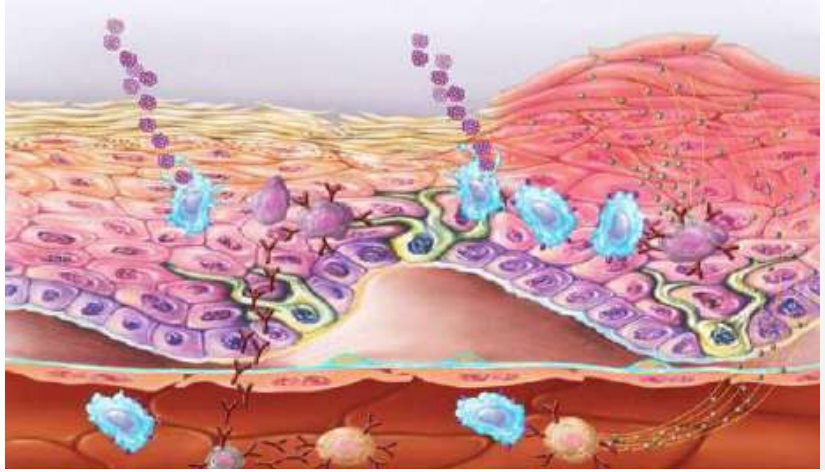
Skin Model Testing Services

Creative Bioarray provides in vitro dermatology drug test services and in vitro cosmetic test services by using in vitro human skin tissue models.

Choose Our Services to Meet Your Needs

Cosmetics

- Skin whitening and pigmentation
- Skin aging & anti-aging
- Photo-aging & UV-protection
- Skin barrier function and hydration



Dermatology

- Skin irritation
- Skin corrosion
- Psoriasis
- Wound healing
- Atopic dermatitis
- Percutaneous absorption
- Skin sensitization

Histology Services

Creative Bioarray provides our global clients the most comprehensive histology services. Drawing on many years of experience and in-depth knowledge, Creative Bioarray offers tissue processing, embedding, sectioning, and staining.

Our histology services including

- Immunohistochemistry (IHC) and Immunofluorescence (IF)
- *In Situ* Hybridization (ISH)
- Fluorescent *In Situ* Hybridization (FISH)
- Circulating Tumor Cell (CTC) FISH
- Transmission Electron Microscopy (TEM)
- Other services

Fluorescent *In Situ* Hybridization (FISH) Services

Fluorescence *in situ* hybridization (FISH) is a cytogenetic technique using fluorescent probes to bind the chromosome with a high degree of complementarity. It is a powerful and easy method to detect RNA or DNA sequences in cells, tissues, and tumors.

Creative Bioarray FISH Assay Platform

- Accuracy, Quality, Short turnaround time
- Over 15 years of experience Services
- Personalized to meet your lab's needs
- >11,000 catalog FISH Probes available

Proprietary Probe Design → **Signal Amplification** → **Molecule Detection** → **Universal: Any Genome, Gene & Tissue**

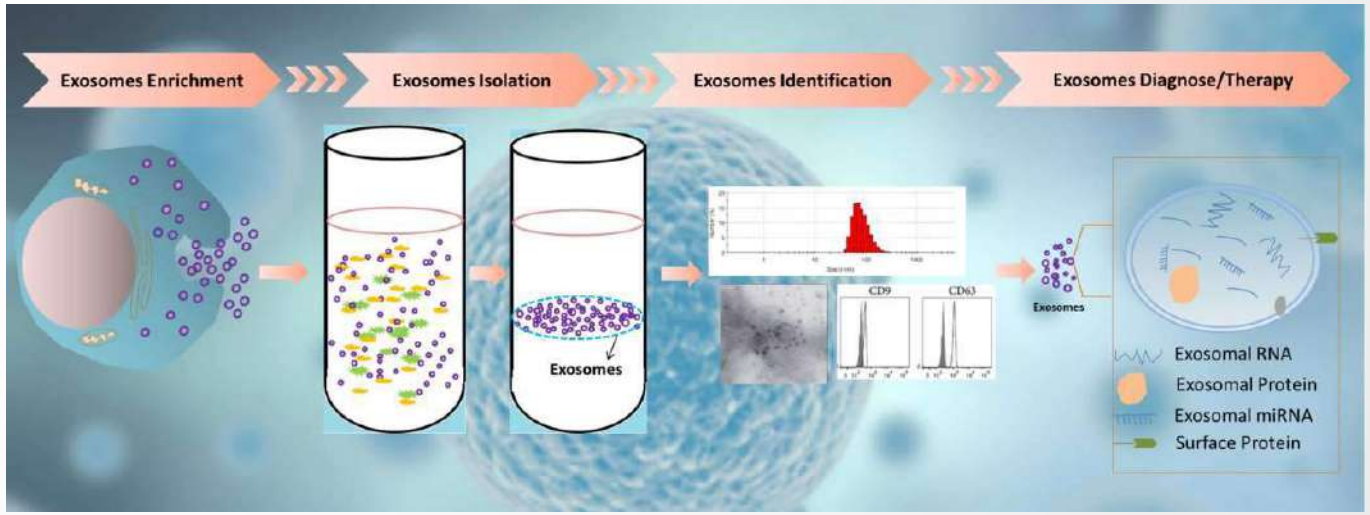
PERMEABILIZE
Cells or Tissues

→ **HYBRIDIZE and AMPLIFY**
To target DNA or RNA

→ **VISUALIZE** → **QUANTIFY**

Exosome Research Services

Creative Bioarray provides a complete set of customized services for exosome research to resolve potential issues quickly and efficiently.



Our Services

- Exosome Isolation and Purification
- Exosome Identification
- Exosome Quantification
- Exosome Analysis
- Exosome Applications

Whether you are interest in *exosome biomarker discovery*, *exosome-based disease pathogenesis*, *exosome-based drug development* or other exosome-related researches, comprehensive supports by Creative Bioarray will be provided to assist you with troubleshooting and data analysis.

Biosample Services

Creative Bioarray

Creative Bioarray's custom tissue procurement services are available to provide any format you need, including FFPE/Frozen Samples, Matched Tissue Pairs, Serum, Plasma, Blood, Urine, Saliva, and other biological specimens on request.

With custom collections, Creative Bioarray offers the following services:

- Sample Collection
- Sample Preparation
- Sample Analysis

Features

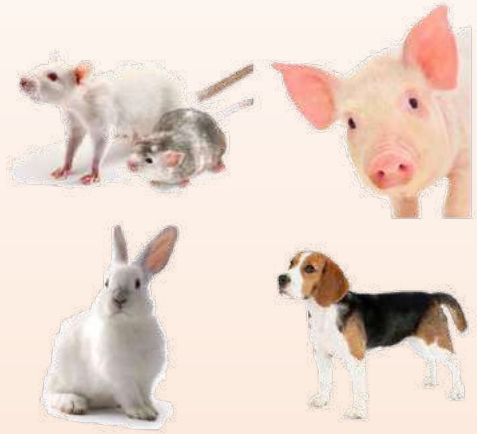
- ✓ Ability to understand researchers' unique specifications
- ✓ Customize the study-specific collection to best further the clients' research
- ✓ All procurement is performed according to IRB-approved protocols or customer specified protocols
- ✓ Customize matched sample types from individual donors

In Vivo Services

Creative Bioarray has established multiple animal disease models including cardiovascular disease models, chronic liver disease models, metabolic disease models, neurological disease models, oncology models, etc., to help you understand your drug candidates' potential pharmacological profile.

Available Species

- Mouse
- Rat
- Hamster
- Guinea Pig
- Rabbit
- Mini Pig
- Beagle
- Cynomolgus Monkey



Our Services

- Pharmacokinetic and Toxicokinetic studies
- PK/PD Biomarker Analysis
- Bioavailability and Bioequivalence
- Bioanalytical Package
- Mass Balance, Excretion and Expired Air Collection
- Administration Routes and Biofluid Sampling
- Quantitative Tissue Distribution
- Target Tissue Exposure
- Metabolite Profiling and Identification
- Blood-Brain-Barrier Assay
- In Vivo Toxicity Study

Our Platforms

Creative Bioarray
Electrophysiology Platform

https://acroscell.creative-bioarray.com/

BioCytoceuticals

https://bcc.creative-bioarray.com/

Creative Bioarray

Creative Bioarray
DDA Platform - Drug Discovery Accelerator

https://dda.creative-bioarray.com/

Creative Bioarray
Cell Culture Solutions

https://cell.creative-bioarray.com/

Creative Bioarray

Market & Contact

- Thousands of customers all over the world.
- Substantial distributors in over 90 countries.

Creative Bioarray

- Accelerate Research Progress
- Your Choice Will Make a Difference

QUICK RESPONSE

SKILLED TEAM

RELIABLE RESULTS

INNOVATIVE

HIGH QUALITY

EXPERIENCED

SPEED UP

WORLD CLASS

Our Collaborations

PUBLICATIONS

Creative Bioarray

Examples of those citing our featured products supplied by our high-quality services

Fu, Yi, et al. "Elevation of JAML promotes diabetic kidney disease by modulating podocyte lipid metabolism." *Cell Metabolism* 32.6 (2020): 1052-1062.

Guo, Siao-Pei, et al. "Activation of kelch-like ECH-associated protein 1/nuclear factor erythroid 2-related factor 2/antioxidant response element pathway by curcumin enhances the anti-oxidative capacity of corneal endothelial cells." *Biomedicine & Pharmacotherapy* 141 (2021): 111834.

Karagianni, Panagiota, et al. "Bookmarking by non-pioneer transcription factors during liver development establishes competence for future gene activation." *Cell reports* 30.5 (2020): 1319-1328.

Kim, Dong Ju, et al. "Development of a novel hyaluronic acid membrane for the treatment of ocular surface diseases." *Scientific reports* 11.1 (2021): 1-16.

Lu, Hengyu, et al. "Resistance to allosteric SHP2 inhibition in FGFR-driven cancers through rapid feedback activation of FGFR." *Oncotarget* 11.3 (2020): 265.

Mancini, Vanessa, et al. "Metabolomic Analysis Evidences That Uterine Epithelial Cells Enhance Blastocyst Development in a Microfluidic Device." *Cells* 10.5 (2021): 1194.

Pedrosa, Maria A., et al. "Experimental data using candesartan and captopril indicate no double-edged sword effect in COVID-19." *Clinical Science* 135.3 (2021): 465-481.

Samiei, Ehsan, et al. "Investigating programmed cell death and tumor invasion in a three-dimensional (3d) microfluidic model of glioblastoma." *International journal of molecular sciences* 21.9 (2020): 3162.

Vendrame, Elena, et al. "Profiling of the human natural killer cell receptor-ligand repertoire." *JoVE (Journal of Visualized Experiments)* 165 (2020): e61912.

...

Creative Bioarray

Contact Us

1-631-626-9181 (USA) | 44-208-123-7131 (Europe)

1-631-614-7828

info@creative-bioarray.com

Suite 115, 17 Ramsey Road, Shirley, NY 11967, USA

https://www.creative-bioarray.com