

CELL **APPLICATIONS, INC.**

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[Home](#) > Custom Services

Custom Services

- Description
- Details

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Primary Cell Isolation & Custom Media

Cell Applications provide custom services including Primary Cell Isolation, Cell Media Optimization & production, 3D Bioprinting & Tissue Engineering, Cell-Based Assays and RNA Isolation/Purification from various human/animal tissue and organ systems. Our extensive expertise and capabilities in primary cell biology allows us to efficiently carry out primary isolation & purification, small- and large-scale custom projects. Primary cells are carefully removed and released from tissue, and then established as a population in a controlled cGMP culture environment. The primary cells in our comprehensive library are low passage and robust, with high viability, transfection efficiency and guaranteed doublings. To maintain optimal cell health, behavior and performance, our media, reagents and conditions are carefully optimized for each cell type. We can expand, freeze, document and test cells isolated from nearly any tissue or donor profile. Our Cell Media components & supplements are carefully formulated to the unique requirements of the specific cell type. This optimization enhances cell health, viability, population doublings, physiology, behavior, sub-culture, data

integrity and reproducibility. Serum- & Xeno-free & other versions available. Confirmed free of bacterial, yeast and fungal contamination.

Contact Us ^[1] to discuss your project.

Our custom services:

- Custom Cell-Based Assays
- Cell Proliferation Assays
- Cellular Health & Metabolism Assays
- Cell Proliferation Assays
- Cell Viability Assays Cytotoxicity Assays
- In vitro Toxicity Testing
- Apoptosis Assays
- 3D Cell Models & Bioprinting
- Cell Invasion/Migration Assays
- In vitro Wound Healing Assay
- Angiogenesis & Endothelial Cell Assays
- Specialized Cell-Based Assays
- Cell/Tissue Nucleic Acid Services

For convenience, Cell Applications Custom Services also available at:

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^[2]

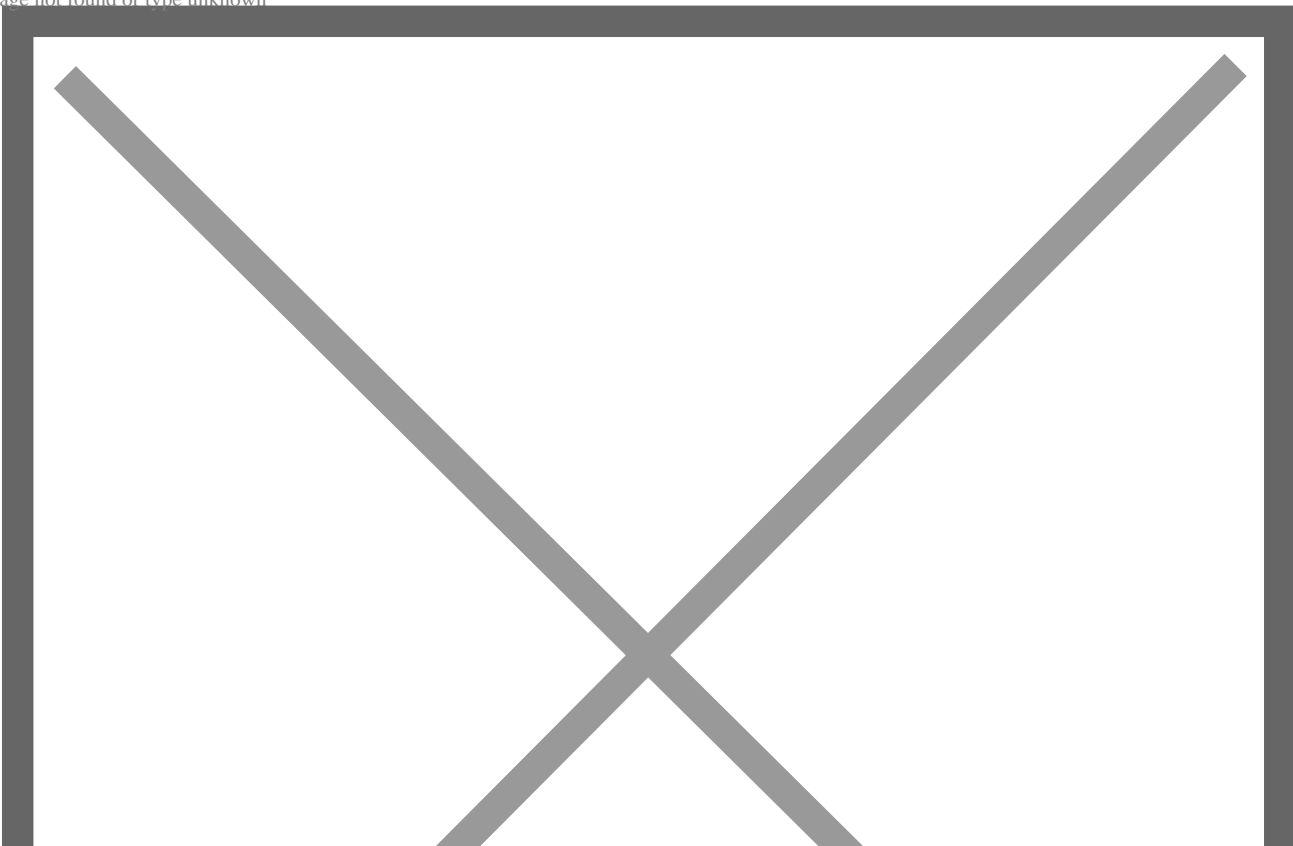


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Details

Primary Cells: [5] We isolate, expand, freeze, document & test cells isolated from virtually any tissue or animal species, including normal & diseased cells, unique donor profiles or different cells from the same donor. Characterization tests and bioassays confirm cell identity and physiology. Cells are free of contamination by bacteria, viruses and mycoplasma, and are accompanied by lot information and detailed culture instructions.

Human iPSC [6]: Custom Generation of Human Induced Pluripotent Stem Cells (HiPSC) allows "More time for research. Less time preparing cells." Services include fast, efficient, cost-effective production, expansion and differentiation. Multiple cells, donors and mutations can be handled quickly, in parallel at unprecedented scale.

Media [7]: Components & supplements are carefully formulated to the unique requirements of the specific cell type. This optimization enhances cell health, viability, population doublings, physiology, behavior, sub-culture, data integrity and reproducibility. Serum- & Xeno-free & other versions available. Confirmed free of bacterial, yeast and fungal contamination.

Bioprinting [8]: Advanced tissue-engineering services are available using a new three-dimensional bioprinting approach called the "Kenzan Method." Utilizing Cyfuse Biomedical's Regenova 3D Bio Printer, a robotic system that fabricates three-dimensional tissue from primary cells, Cell Applications has created a powerful bio-printing model that make scaffold-free, primary cell-based tissue available.

Assays [9]: Using standard or custom-isolated primary cells, Cell Applications will test the effects of cell treatment: Function, viability, proliferation, cytotoxicity, apoptosis, screening, immunoassay, histochemistry, transcription, adhesion, migration, chemotaxis, angiogenesis, outgrowth, tube Formation, wound healing and others. Comprehensive experimental and data analysis plan provided with quote.

RNA [10]: Ready-to-use, high quality total RNA and/or Poly A+ RNA is isolated and prepared from a wide range of human and animal primary cells or tissues. Quality control tests confirm RNA integrity, stability and lack of genomic DNA contamination. Primers are designed to detect mRNA for genes of interest to confirm the phenotype of source cell or tissue.

CONTACT US [1] **FOR PRIMARY CELL ISOLATION FROM OTHER SPECIES OR LARGE-SCALE MEDIA FORMULATION, OPTIMIZATION & PRODUCTION**

858-453-0848 | info@cellapplications.com [11]

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Contact Us

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