

Creative Bioarray Provides Comprehensive iPSC Characterization Service to Support Stem Cell Research

New York City, New York Jun 28, 2022 ([Issuewire.com](https://www.issuewire.com)) - Creative Bioarray, is a biology and biotechnology company dedicated to providing innovative cell-based services and cell products to the academic, biotech, and pharma communities to accelerate the pace of drug discovery and biological research. Creative offers customers access to high-quality primary and iPSC-derived cells, custom iPSC services, functional bioassay development, and execution. Recently, Creative Bioarray announced the release of its comprehensive [iPSC characterization service](#) to support stem cell research.

Induced pluripotent stem cells (iPSCs) play an important role in cell and tissue modeling, drug screening, and future regenerative therapies. The characteristics of iPSCs are similar to those of embryonic stem cells, so similar methods were developed to characterize and differentiate them. With years of exploration in iPSC development, Creative Bioarray is committed to providing multiple characterization services for iPSC pluripotency to customers around the world.

Creative Bioarray is committed to providing several feasible and cost-effective characterization methods for iPSC pluripotency. Typically, these methods are based on RNA extraction, cDNA transcription, polymerase chain reaction, and immunofluorescence staining. Creative Bioarray provides iPSC characterization services mainly including pluripotency and lineage-specific marker staining, karyotyping, differentiation potential analysis, microbial contamination detection, genome sequencing analysis, HLA typing for potential transplantation studies, DNA fingerprinting (short tandem repeats) (STR) analysis).

Routine assays performed by Creative Bioarray to validate iPSC cell lines include characterization of cells by immunocytochemistry (ICC) and qPCR for expression of pluripotency markers, molecular karyotyping, and assessment of their differentiation potential. Expert services provided by Creative Bioarray include: standardization of iPSC culture parameters, molecular and functional characterization of iPSC lines, banking of iPSC master and working stocks, and comprehensive iPSC line data sheets.

Because iPSCs can be derived from healthy donors and diseased patients, they are ideal systems for mimicking disease phenotypes required for drug screening and drug development. With the extensive knowledge of highly qualified scientific experts and a vast network of partners and technologies, Creative Bioarray can successfully and efficiently complete projects.

"Our dedicated project manager will guide you through every step of the project completion process and keep you informed of progress, transparency and high-quality service is our mission." said Hannah Cole, the marketing director of Creative Bioarray, she also claimed, " We are capable to provide customized solutions to satisfy the specific requirement."

About Creative Bioarray

Creative Bioarray is dedicated to offering customers innovative biotechnology products and services for research use to greatly enhance and drive innovation and standards in science. As a well-recognized industry leader with more than 10 years of experience and in-house expert support, Creative Bioarray has already countenanced research all around the world.

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