ATCC®

August 2016

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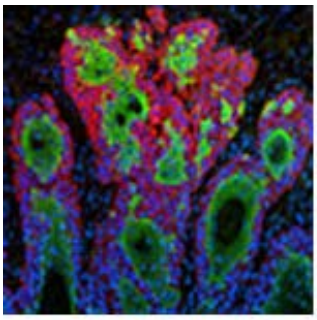
cellpassages



Toxicology Tools

Physiologically relevant cell-based assays are critical for the biomedical and toxicity data that cannot be obtained from animal models or humans. ATCC provides the cells needed to explore lung, skin, cardiovascular, gastroenteric, liver, kidney, and neural toxicity for applications such as high-content screening, 3D culture, spheroid culture, permeability assays, metabolic stability and survival, and more.

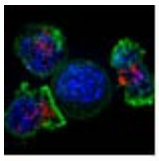
Find out your toxicology tools at www.atcc.org/tox.

New Adipogenesis and Metabolism

ATCC has recently accessioned three cell lines that can be used as physiological models for the study of diabetes, obesity, and brown fat metabolism. The D12, D16, and X9 cell lines were isolated from the inguinal subcutaneous fat deposits of 129SVE mice.

Order your essential adipogenesis cell lines:

ATCC® No.	Designation
CRL-3280™	D12
CRL-3281™	D16
CRL-3282™	X9
30-2006™	DMEM:F12 Medium
30-2020™	Fetal Bovine Serum



Immune Model of Drug-Resistant Leukemia and Natural Killer Function

The CD24+ NALM6 clone G5 cell line is useful for functional studies of CD24 when paired with the CD24- N6/ADR cell line. This duo can also be used to study the antigen expression patterns of drug-resistant leukemia and are a good model to evaluate binding, activation, and lytic events in the natural killer cytolytic pathway.

Get started with CD24+ and CD24- cell lines for your immunologic studies:

ATCC® No.	Designation
CRL-3273™	NALM6, clone G5
CRL-3274™	N6/ADR
30-2001™	RPMI-1640 Medium

30-2020™	Fetal Bovine Serum

Cell Proliferation Assay Kits

MTT and XTT Cell Proliferation Assay kits (ATCC® 30-1010K™ and ATCC® 30-1011K™) are convenient and valuable tools for the quantitative evaluation of a cell population's response to external factors that affect viability and growth. These kits provide accurate and straightforward quantification of changes in cell proliferation for high-throughput screening for drug sensitivity, cytotoxicity, and response to growth factors.

Monitor your cells' growth today.


Webinar: ATCC® Quantitated Nucleic Acids – Empowering Molecular-based Assay Development

Presenters: Fang Tian, Ph.D., *Lead Scientist*, ATCC
Cindy Long, *Product Line Business Manager*, ATCC
September 22, 12:00 PM ET.

Abstract: Molecular diagnostics for the personalized treatment of cancer patients and identification of pathogenic microorganisms require authenticated controls to ensure the reliability of theses tests. This webinar will discuss ATCC's growing portfolio of quantitative nucleic acids that have been purified or synthetically derived from characterized cell lines and microorganisms. ATCC quantitative nucleic acids are ideal for use in inclusivity/exclusivity testing, establishing limits of detection, and validating or comparing test methods.

Register for this session.

ATCC Puzzle

Try this month's crossword puzzle and test your knowledge of toxicology! The solution will appear in next month's issue.

For the solution to last month's Cardiac Curiousities puzzle click here.

Publications

- **Poster:** Establishment and Characterization of a Kidney Drug Interaction Model
- *In vitro* Angiogenesis Assay Using the ATCC® Angio-Ready™ System
- Keratinocytes Differentiate into Epidermal Structures in 3D Organotypic Culture
- **Webinar:** Get Ready for a Better Angiogenesis Model
- **Webinar:** Neural Progenitor Cells – Toxicological Models for the 21st Century

Frequently Asked Questions

Q: How does the MTT Cell Proliferation Assay work?

A: The MTT Assay is a colorimetric assay system which measures the reduction of a tetrazolium component (MTT) into an insoluble formazan product by the mitochondria of viable cells. After incubation of the cells with the MTT reagent for approximately 2 to 4 hours, a detergent solution is added to lyse the cells and solubilize the colored crystals. The samples are read using an ELISA plate reader at a wavelength of 570 nm. The amount of color produced is directly proportional to the number of viable cells.

Have more questions?

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