



THE ESSENTIALS OF LIFE SCIENCE RESEARCH
GLOBALLY DELIVERED™



Choosing a model system that faithfully represents the natural physiology of the cell when it is being studied *in vitro* is fundamental to understanding its function *in vivo*. ATCC offers a wide variety of primary cells that have been immortalized using the hTERT component of the Telomerase gene. These cell lines combine the physiology and function of primary cell isolates and the indefinite propagation properties of continuous cell lines.

This month, Cell Passages will feature the newest addition to the [ATCC hTERT immortalized cell line](#) collection. Be sure to download [the ATCC hTERT Immortalized Cell Culture Guide](#) for tips and techniques for culturing hTERT immortalized cell lines.

TeloHAEC – Now Available

ATCC is pleased to announce the release of our new hTERT immortalized aortic endothelial cell line, TeloHAEC ([ATCC® CRL-4052™](#)). This diploid cell line is of female origin and exhibits a consistent normal karyotype at low and high passages. Moreover, TeloHAEC cells retain important endothelial cell characteristics such as CD31/PECAM-1 marker expression and LDL functional uptake, making them an ideal model for the study of angiogenesis and other aspects of endothelial biology.

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News this Month

[hTERT](#)

[TeloHAEC](#)

[Smooth Muscle Cell Systems](#)

[Photo Contest](#)

[New Webinar Series](#)

[Frequently Asked Questions](#)

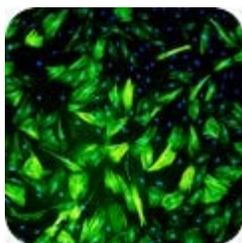
ATCC Publications

[hTERT Immortalized Cell Culture Guide](#)

[Primary Cell Culture Guide](#)

[Stem Cell Culture Guide](#)

[Download hTERT Immortalized Cells Webinar](#)



Airway Smooth Muscle Cell Systems – Now Available

Two new human primary cell types from normal tissue have been recently added to the ATCC collection:



ATCC Photo Contest

Get your ATCC cells ready for their close-ups. Starting on May 21, 2014, ATCC will be looking for cell images that will steal the show!* Send us



Webinar – ATCC Breast Cancer Research Resources

Presenter: Fang Tian, Ph.D.

Lead Scientist, Cell Biology Group Leader, ATCC

- Primary Lung Smooth Muscle Cells ([ATCC® PCS-130-010](#))
- Primary Bronchial/Tracheal Smooth Muscle Cells ([ATCC® PCS-130-011](#))

These cell lines are ideal for respiratory disease research, and can be used in specific drug testing, physiological and biomedical studies, and pathological studies.

Find more [ATCC human primary cells >>](#)

your most beautiful and scientifically stunning images of ATCC cells for a chance to win a \$200 American Express® gift card.

Images will be judged for beauty and scientific relevance by your colleagues and a select panel of ATCC scientists. Photo contest winners from the Microbiology Collection and Cell Biology Collection will be chosen as followed:

Most Popular Photograph Award – 1 winner per collection

ATCC Excellence Photograph Award – 4 winners per collection

[See photo contest rules >>](#)

**U.S. customers only, void where prohibited*

April 24, 2014

Breast cancer is the leading cause of cancer-related mortality in women. New disease classifications, relevant signaling pathways, and genetic regulators of breast cancer have been identified over the past decade. To continue facilitating progress in basic research and drug discovery, ATCC provides breast cancer research resources. In this webinar, we will discuss triple negative breast cancer cell lines, breast cancer mouse models, and commonly used breast cancer *in vitro* models with in-depth genetic alteration and molecular profiles. We will also highlight cell lines that can be used to address recently identified genomic and clinical features of breast cancer subtypes.

Register for a session
[10:00 AM](#) or [3:00 PM \(ET\)](#)



Q: What is the difference between primary microvascular endothelial cells and immortalized microvascular endothelial cell lines?

A: Primary microvascular endothelial cells may grow for 15 population doublings (PD) before they become senescent and undergo growth arrest. The hTERT-immortalized microvascular cell lines, including ATCC® CRL-4049™, are able to grow for more than 25 PD without changes in endothelial cell characteristics such as expression of CD31 and the ability to take up AcLDL. Immortalized microvascular cell lines do not undergo growth arrest at latter passages.

[Have more questions?](#)

Follow us: [Cell biology](#)

ATCC - 10801 University Boulevard, Manassas, VA 20110

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