



## ATCC Stem Cell Collection

The ATCC Stem Cell Collection includes: [Ready-to-use induced pluripotent stem cell \(iPSC\) lines](#) derived from an array of tissue types and using a variety of different reprogramming methods, a growing list of human [mesenchymal stem cell lines](#), numerous mouse embryonic stem cell lines, and the newly accessioned BT142 brain tumor stem cell line. All of these are physiologically relevant experimental platforms that researchers can use to explore cell biology in new and meaningful ways.

This month, *Cell Passages* will feature the newest additions to the stem cell collection, but make sure to check out all of the iPSC lines and associated products available from ATCC. Also, be sure to download the ATCC Stem Cell Culture Guide for tips and techniques for culturing stem cells.



### Footprint mutations are a thing of the past with non-integrating, Sendai-virus reprogrammed hiPSC “control” lines – *Now Available!*

Traditional methods of inducing cell pluripotency involve the use of a retrovirus to express reprogramming factors. This method requires viral integration into the host genome, which results in “footprint” mutations that lead to undesirable gene expression variability between lines.

In contrast, the new ATCC iPSC “control” lines were generated using non-integrating sendai viral vectors to express OCT4, SOX2, KLF4 and MYC in normal fibroblasts of human foreskin, hepatic, and cardiac tissue. These cell lines are ideally suited as controls to support the study of normal tissue development and differentiation, and as source material for the development of normal iPSC-derived differentiated cells.

- [ATCC® No. ACS-1019™](#) Human Foreskin Fibroblasts from a normal, newborn male.
- [ATCC® No. ACS-1020™ \(HYS0103\)](#) Human Hepatic Fibroblasts from a normal, 31 year-old male.

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## ATCC Publications

### ATCC® Stem Cell Culture Guide

Tips and techniques for culturing hTERT immortalized cells.

[Download PDF ▶](#)

### ATCC® Animal Cell Culture Guide

Tips and techniques for culturing continuous cell lines.

[Download PDF ▶](#)

### ATCC® Primary Cell Culture Guide

Tips and techniques for culturing Primary Cells.

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## FAQs

**Question: My iPS cells are taking a long time to recover after they are thawed and plated. What should I do?**

**Answer:** It is possible that the cells were seeded at a low density. If you do not see any colonies after one week, thaw a new vial and seed the cells at a higher seeding density and add 10uM ROCK inhibitor to the media.

[Have more questions?](#)

## 2013 Photo Contest

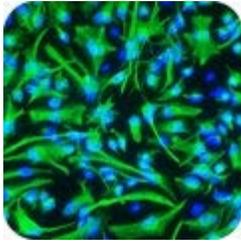
**Are your cells and microbes dolled up and ready for their close-ups?**

ATCC is looking for images that steal the show, so send us your most beautiful and scientifically

- [ATCC® No. ACS-1021™ \(CYS0105\)](#) Human Cardiac Fibroblasts from a normal, 72 year-old male.

intriguing images of ATCC cell lines and microbial strains for a chance to win great prizes.

[Learn more ►](#)

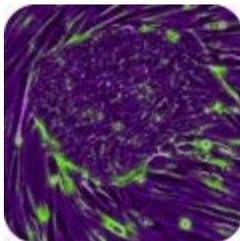


## A powerful new tool for Glioma Research: The BT142 mut/- (Homozygous) – Brain Tumor Stem Cell Line

Research into the underlying mechanism of gliomagenesis has been hampered by the lack of a good *in vitro* disease model. To fill this void ATCC now offers the **BT142 Oligoastrocytoma Grade III Cancer Stem Cell line**, developed by Dr. Samuel Weiss's group at the Hotchkiss Brain Institute (University of Calgary). This line has lost the wild-type allele of IDH1 and is now homozygous (mut/-) for the endogenous IDH1 mutation (R132H), which results in near wild-type levels of the oncometabolite 2-hydroxyglutarate. A similar phenomenon has been reported in patients carrying the IDH1 mutation, so this new cell line will provide a powerful new model system to help investigators accelerate glioma research and develop novel therapeutic options for this aggressive malignancy.

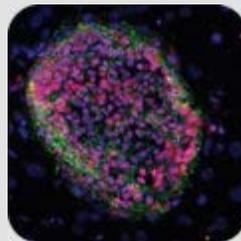
[Learn more ►](#)

Luchman, H.A. et al. An *in vivo* patient-derived model of endogenous IDH1-mutant glioma. *Neuro Oncol* 14, 184-91, and personal communications.



### Stem Cell Solutions

ATCC offers the stem cell research community a collection of stem cell products that include: Ready-to-use iPSC lines derived from different tissue types and generated via different reprogramming techniques, a growing list of human mesenchymal stem cell lines, and a large collection of mouse embryonic stem cell lines. Each [ATCC® Stem Cell Solutions](#) offering is composed of cryopreserved cells, optimized media and supplements, easy-to-use cell dissociation reagents, and no-hassle cryopreservation media.



### Parkinson's disease hiPSCs

The ATCC collection of hiPSC includes multiple Parkinson's disease cell lines derived from the dermal fibroblasts of an individual patient, generated by different reprogramming techniques.

- [ATCC® No. ACS-1013™](#) (DYS0530) Reprogrammed by Sendai virus expression of OCT4, SOX2, KLF4 and MYC genes.
- [ATCC® No. ACS-1012™](#) (DYR0530) Reprogrammed by retroviral expression of the OCT4, SOX2, KLF4 and MYC genes.
- [ATCC® No. ACS-1014™](#) (DYP0530) Reprogrammed by episomal expression of the OCT4,



### Webinar - Stem Cell Solutions

In this webinar, ATCC scientist Dr. Yukari Tokuyama introduces the ATCC stem cell collection, which includes human induced pluripotent stem cells (iPSCs), human mesenchymal stem cells and mouse embryonic stem cells. In addition, Dr. Tokuyama describes some of the difficulties currently associated with human iPSCs culture systems and demonstrates how ATCC® Complete Stem Cell Solutions™, which provide reliable, authenticated cells and optimized media and reagents in a single, easy to use system, can help researchers avoid these difficulties and advance their research.

SOX2, KLF4 and MYC genes.

[Learn more ▶](#)

[Watch now ▶](#)

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