

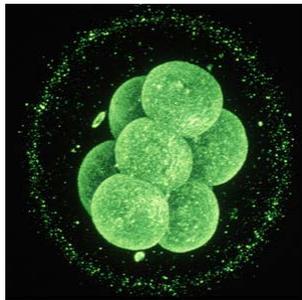
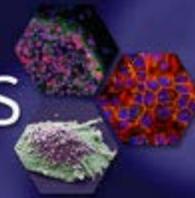


May 2015

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cell passages



Pluripotency Assured

ATCC[®] induced pluripotent stem cells (iPSCs) are a perfect model for drug discovery, tissue repair, or disease pathogenesis. Ethnic and gender diverse - normal and disease states iPSCs may be differentiated into multiple cell types. Start-up is easy, with our pre-configured Feeder-free, Serum-free Culture kit. Zero-footprint ATCC iPSCs are highly characterized and have been extensively tested to confirm their undifferentiated state. [Start](#) your research with ATCC iPSCs.

Be sure to visit LGC's booth #B16:33 at the upcoming ISSCR 2015 Annual Meeting in Stockholm, Sweden, June 24-27. There, you'll learn more about ATCC's stem cell offerings, including mouse embryonic stem cells; bone marrow-, adipose-, and umbilical cord-derived mesenchymal stem cells (MSCs); and normal and disease-state induced pluripotent stem cells.

In addition, ATCC scientists will present their recent findings during the poster sessions:

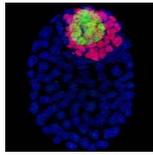
- hTERT-immortalized MSCs in Co-culture Models of Wound Healing and Angiogenesis
- Defined Conditions for Expansion and Dopaminergic Neuron Differentiation of iPSC-derived Neural Progenitor Cells

Be sure to stop by LGC's booth for more information!

You can also browse ATCC stem cells at www.atcc.org/stemcells, explore [stem cell culture reagents](#), learn more about [iPSC research resources](#), or tighten your focus on recent additions such as our growing lines of [hematopoietic progenitor cells](#) and [ethnic and gender diverse iPSCs](#).

**Assuring
Pluripotency**

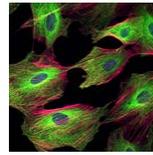
***In vitro*
Applications**



ATCC® iPSCs are highly characterized

and authenticated using immunological, phenotypic, genotypic, and sterility-based analyses. Assuring Pluripotency in ATCC iPSCs is a brochure that specifies the exhaustive steps ATCC takes to verify that its iPSCs are undifferentiated and high quality.

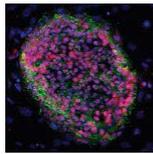
[Download](#) the Assuring Pluripotency brochure.



for hTERT-immortalized MSCs

ATCC has recently applied hTERT-immortalization techniques to create the immortalized adipose-derived MSC cell line ASC52telo ([ATCC® No. SCRC-4000™](#)). This cell line differentiates down several lineages, and has been used in a variety of applications such as supporting a [functional epidermis](#), generating arteriole-like [vascular structures](#), and inhibiting [T cell activation](#).

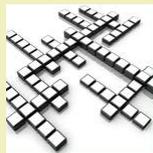
[Order](#) ASC52telo today!



Stem Cell Culture Guide

The ATCC Stem Cell Culture Guide provides key information for successfully growing, thawing, scaling-up, freezing, and differentiating iPSCs, MSCs, mouse embryonic stem cells, and cancer stem cells.

[Download](#) a free copy of the ATCC Stem Cell Culture Guide.



ATCC® Puzzle

Stem Cell

Soundings

Try this [month's crossword puzzle](#) and test your knowledge of stem cells!

The solution will appear in next month's issue.

For the solution to Gene Transfer Trials [click here](#).

Publications

- [ATCC® Culture Guides](#)
- [Assuring Pluripotency](#)
- [Stem Cell Solutions Brochure](#)
- [Bone Marrow-derived Mesenchymal Stem Cells Brochure](#)
- [ATCC Research](#)
- [ATCC Webinars Archive](#)



Frequently Asked Questions

Q: What are the markers most frequently used to determine stem cell pluripotency?

A: SSEA-3, SSEA-4, TRA 1-60, TRA 1-81, NANOG, and alkaline phosphatase are the markers most commonly used to determine the pluripotency of a stem cell. These markers can be tested using immunocytochemistry (ICC), flow cytometry, and PCR assays.

[Have more questions?](#)

Cell Biology Collections

Cell Line Authentication

Facebook

Cell Biology Resources

Cell Culture Conversation

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Mouse embryo confocal image courtesy of Dr. David Becker. Mouse blastocyst image courtesy of Jenny Nichols.

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