

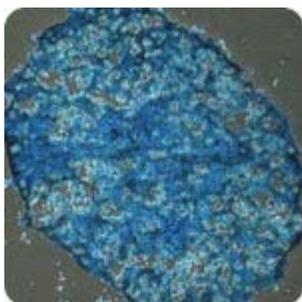


THE ESSENTIALS OF LIFE SCIENCE RESEARCH
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The ATCC Stem Cell Collection includes: Ready-to-use induced pluripotent stem cell (iPSC) lines derived from an array of cell types and using a variety of different reprogramming methods, a growing list of human mesenchymal stem cells (MSCs), numerous mouse embryonic stem cell lines, and the BT142 brain tumor stem cell line. These are all 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 MSC addition to the stem cell collection, but make sure to check out all of the [stem cell 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.



The clinical promise of MSC – improving tissue regeneration and transplant outcomes.

Solid organ transplants (heart, liver, lung, etc.) are performed at a rate of 28,000 a year in the US alone, while in the last twenty years less than a thousand hand/face transplants have been performed world-wide. This blog post will

address the reasons for the discrepancy and describe why investigators think that MSCs may help make hand/face transplant a more feasible option in the future.

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ATCC Publications

[Animal Cell Culture guide](#)

[Primary Cell Culture guide](#)

[Stem Cell Culture guide](#)

ATCC Announcements

AACR-NCI-EORTC International Conference Molecular Targets and Cancer Therapeutics

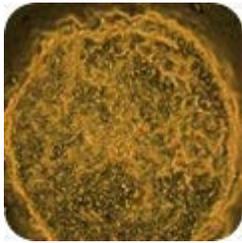
October 19-23, 2013
Hynes Convention Center
Boston, MA
Booth #500

Tech Tip

Q: Does ATCC have a complete CD characterization certificate for the mesenchymal stem cells?

A: We assay the MSCs for positive expression of CD29, CD44, CD73, CD90, CD105 and CD166 and negative expression of CD14, CD31, CD34, CD45, using cell specific staining. The results are reported on the lot specific Certificate of Analysis for the MSC.

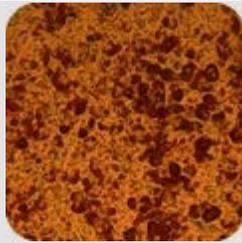
[Have more questions?](#)



Bone Marrow Derived MSCs

ATCC® Bone Marrow Derived MSCs (ATCC® No. PCS-500-012™) are cryopreserved at low passage (P2) to ensure high post-thaw viability and plating efficiency and they have been thoroughly tested to confirm their proliferative capacity, differentiation potential, and that they are free of microbial contamination. Together with the Mesenchymal Stem Cell Basal Medium for Adipose, Umbilical and Bone Marrow-derived MSCs (ATCC® No. PCS-500-030), Mesenchymal Stem Cell Growth Kit for Bone Marrow-derived MSCs (ATCC® No. PCS-500-041), and the Adipocyte Differentiation Toolkit for Bone Marrow and Umbilical-Derived MSCs (ATCC® No. PCS-500-053) they form a complete experimental platform that you can trust to help you achieve your research objectives.

[Learn more >>](#)



Normal Human Pre-adipocytes

Primary Subcutaneous Pre-adipocytes (ATCC No. PCS-210-010) are a highly homogeneous population of cells de-differentiated from mature adipocytes that exhibit multi-lineage differentiation potential (e.g., chondrocytes, osteoblasts). They are cryopreserved at the second passage to ensure the highest viability and plating efficiency after thawing; and, they are ideally suited to the study of diabetes, obesity, metabolism, insulin sensitivity and other aspects of adipose biology.

[Learn more >>](#)



MSC Basal Medium and Differentiation Toolkits

ATCC offers basal medium along with growth kits specially designed to support the growth of Adipose, Umbilical or Bone Marrow-derived MSC. These media formulation are optimized to ensure functional expression of MSC markers, healthy growth and proliferation, and multi-potent, differentiation potential. Additionally, ATCC offers differentiation toolkits along with protocols for adipocyte, chondrocyte and osteocyte differentiation to help you get your experiments running at full speed.

[Click here for the full list of available MSC reagents >>](#)

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