

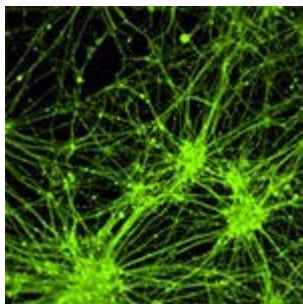


November 2017

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# cell passages

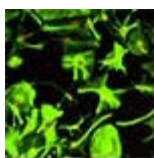


## Parkinson's Disease-derived Neural Progenitor Cells

ATCC Parkinson's disease-derived neural progenitor cells (NPCs; [ATCC® ACS-5001™](#)) are essential tools for researchers who want to skip the time it takes to create neural models from stem cells or primary tissue. These cells are an ideal model for investigating the pathogenesis of this neurodegenerative disease and screening for potential toxic effects during drug development.

**Explore Parkinson's Disease-derived  
NPCs>>**

- Reduce the amount of time and resources needed for data collection
- Capable of differentiating into neurons, glial cells, and oligodendrocytes
- Derived from dermal fibroblast iPSCs isolated from a donor diagnosed with Parkinson's disease
- Original material possesses point mutations (R50H, I723V, and M2397T) in the Leucine-Rich Repeat Kinase 2 (LRRK2) gene

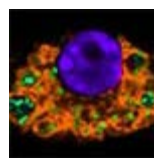


## ATCC Neural Progenitor Cells

ATCC offers a complete system of tri-lineage-capable, neural progenitor cells (NPCs); lineage marker-labeled NPCs; and expansion and differentiation media. Work with differentiating or terminally differentiated neurons, astrocytes, and oligodendrocytes sooner - yield experimental results faster.

[Neural progenitor cells>>](#)

[Neural progenitor cell expansion kit>>](#)

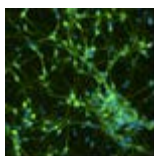


## MJFF Cells

ATCC has been selected by The Michael J. Fox Foundation for Parkinson's Research (MJFF) to provide cell lines to accelerate research on discovering a cure for Parkinson's disease. We offer wild-type LRRK2 ([ATCC® SC-6003™](#)), LRRK2 knockout ([ATCC® SC-6004™](#)), and human LRRK2 T1348N (GTPase-dead) knockin ([ATCC® SC-6005™](#)) macrophage lines to advance the understanding of and further

drug development for Parkinson's disease.

[Order MJFF Cell Lines](#)

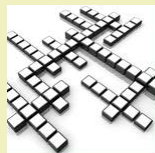


## ATCC Dopaminergic Differentiation Media

The Neural Progenitor Cell Dopaminergic Differentiation Kit ([ATCC® ACS-3004™](#)) is specially designed for the dopaminergic differentiation of iPSC-

derived NPCs. Simply add the media to DMEM: F-12 ([ATCC® 30-2006™](#)) and follow the [Protocol for NPC Expansion and Dopaminergic Neuron Differentiation](#) to generate cultures of tyrosine hydroxylase-positive, dopaminergic neurons for your neurotoxicity and neurodegenerative disease studies.

[Order the Neural Progenitor Cell Dopaminergic Differentiation Kit](#)



### ATCC Puzzle

Try this [month's crossword puzzle](#). The solution will appear in next month's issue.

For the solution to last month's puzzle [click here](#).

### Resources

- [Webinar: Neural Progenitor Cells -Models of Toxicology for the 21st Century](#)
- [Neurobiology Research Tools](#)
- [Neurobiology Resources](#)



## Frequently Asked Questions

**Q:** Do I need to coat flasks for growth of ATCC® [Neural Progenitor Cells](#)?

**A:** Yes. We recommend using ATCC's CellMatrix Basement Membrane Gel ([ATCC® ACS-3035™](#)) to coat flasks for NPC culture. Conventional Poly-L-Ornithine and laminin coatings do not support the growth of NPCs in ATCC's NPC growth medium.

[Have more questions?](#)

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[Cell Biology Resources](#)

[Webinar Registration](#)

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