



## Advanced Studies of the Neuron Model of Neurodegenerative Diseases

Guest Editors:

**Prof. Dr. Antonella Cardinale**

Laboratory Experimental  
Neurophysiology, IRCCS San  
Raffaele Pisana, 00166 Rome,  
Italy

**Dr. Antonio De Iure**

Laboratory Experimental  
Neurophysiology, IRCCS San  
Raffaele Pisana, 00166 Rome,  
Italy

Deadline for manuscript  
submissions:

**closed (12 April 2024)**

### Message from the Guest Editors

Neurodegenerative diseases are characterized by progressive neuron damage and decreasing activity of synapses in the brain or peripheral nervous system, causing cognitive and motor symptoms and finally leading to human death.

Studies into the neurodegenerative mechanisms today represent the most complex and urgent challenge for neuroscience research. As research technologies continue to progress, several new experimental neuronal models are emerging. The different neuronal models attempt to deepen altered mechanisms related to neurodegeneration and neuroinflammation. For this purpose, it will be interesting to analyze the experimental models that closely mimic clinical features of human neurodegenerative disease, such as induced pluripotent stem cells, trans-differentiated neurons, organoids, and three-dimensional culture. Understanding these disease processes assist in identifying new effective therapies and developing personalized medicine.

We invite authors to submit research articles and reviews at different levels of analysis, dealing with the state of the art in this field.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Stephen D. Meriney

Department of Neuroscience,  
University of Pittsburgh,  
Pittsburgh, PA 15260, USA

## Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Brain Sciences* (ISSN 2076-3425). *Brain Sciences* is an open access, peer-reviewed scientific journal that publishes original articles, critical reviews, research notes, and short communications on neuroscience. The scientific community and the general public can access the content free of charge as soon as it is published.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, PSYINDEX, PsycInfo, CAPlus / SciFinder, and other databases.

**Rapid Publication:** manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.2 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).

## Contact Us

Brain Sciences Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/brainsci](http://mdpi.com/journal/brainsci)  
[brainsci@mdpi.com](mailto:brainsci@mdpi.com)  
[X@BrainSci\\_MDPI](https://twitter.com/BrainSci_MDPI)