



## Pluripotent Stem Cell: Current Understanding and Future Directions

Guest Editor:

**Dr. Aline Yen Ling Wang**

Center for Vascularized  
Composite Allotransplantation,  
Chang Gung Memorial Hospital,  
Taoyuan 333, Taiwan

Deadline for manuscript  
submissions:

**30 September 2024**

### Message from the Guest Editor

This Special Issue, “Pluripotent Stem Cells: Current Understanding and Future Directions”, will mainly focus on induced pluripotent stem cells (iPSCs) and potential therapeutic applications of their derivatives.

iPSCs are similar to embryonic stem cells (ESCs) in that they possess similar regenerative abilities and can differentiate into any cell type in the body, whereas iPSC generation does not face the ethical controversies related to ESC sources. The therapeutic applications of autologous iPSCs have great promise in tissue engineering, regenerative, and personalized medicine. iPSCs-differentiated cells may have the potential to be applied to disease cures or the screening of new drugs. Moreover, allogeneic iPSC-derived exosomes (iPSCs-Exos) act as cell-free therapy and may have broad application prospects in disease treatments.

We invite authors in the field to submit original research or review articles pertaining to this important and fast-progressing field of iPSC-associated medicine.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Felipe Fregni

1. Neuromodulation Center and  
Center for Clinical Research  
Learning, Spaulding  
Rehabilitation Hospital and  
Massachusetts General Hospital,  
Harvard Medical School, Boston,  
MA 02114, USA  
2. Department of Epidemiology,  
Harvard T.H. Chan School of  
Public Health, Boston, MA 02115,  
USA

## Message from the Editor-in-Chief

*Biomedicines* (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

## 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](#), [CAPUS / SciFinder](#), and [other databases](#).

**Journal Rank:** JCR - Q1 (*Pharmacology & Pharmacy*) / CiteScore - Q2 (*Medicine (miscellaneous)*)

## Contact Us

*Biomedicines* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

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

[mdpi.com/journal/biomedicines](http://mdpi.com/journal/biomedicines)  
[biomedicines@mdpi.com](mailto:biomedicines@mdpi.com)  
[X@Biomed\\_MDPI](#)