



an Open Access Journal by MDPI

## Synaptic Plasticity in Health and Disease

Guest Editor:

### Dr. María Luz Montesinos

1. Departamento de Fisiología Médica y Biofísica, Instituto de Biomedicina de Sevilla, Universidad de Sevilla, Sevilla, Spain  
2. IBIS, Hospital Universitario Virgen del Rocío/CSIC/Universidad de Sevilla, Sevilla, Spain

Deadline for manuscript submissions:  
**closed (31 August 2022)**

### Message from the Guest Editor

This Special Issue will focus on: (1) the molecular basis of the different forms of synaptic plasticity in the context of the healthy brain, and (2) the plasticity alterations found in brain diseases and disorders, with special interest in the signaling pathways and molecular mechanisms affected. Understanding synaptic plasticity in health and disease could help to identify key targets, as a first step for developing pharmacological treatments aimed to improve learning/memory in individuals affected by those brain disorders/diseases.

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to): molecular mechanisms of plasticity, synaptic proteomics in plasticity, proteomics and electrophysiological studies in models of DS, fragile X, Rett syndrome, ASD, AD, PD and other brain disorders/diseases with affected plasticity.



[mdpi.com/si/117146](https://mdpi.com/si/117146)

# Special Issue



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*, *CAPLus / SciFinder*, and other databases.

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

## Contact Us

*Biomedicines* Editorial Office  
MDPI, Grosspeteranlage 5  
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](https://twitter.com/Biomed_MDPI)