



Tissue Engineering in Brain Injury Applications: From Molecular Mechanisms to Therapeutics Opportunities

Guest Editor:

**Prof. Dr. Dinesh Kumar
Srinivasan**

Department of Anatomy, Yong
Loo Lin School of Medicine,
National University of Singapore,
Singapore 117594, Singapore

Deadline for manuscript
submissions:

closed (30 November 2020)

Message from the Guest Editor

Brain injury is one of the most pressing global health issues and prevalent causes of cerebrovascular and neurological disorders all over the world. In addition to the brain injury, patients become vulnerable to infections, develop poor neurological outcomes, and exhibit a higher rate of mortality and morbidity. It is well established that brain injury leads to impairments of the blood–brain barrier (BBB) integrity and function, contributing to the loss of neural tissue and affecting the response to neuroprotective drugs. Thus, stabilization/protection of the BBB after brain injury is a promising strategy to limit neuronal inflammation, secondary brain damage, and acute neurodegeneration.

The Special Issue is aimed at researchers using a wide range of tissue infection models, which may include animal models, ex vivo tissues, and reconstructed or engineered tissues, using physical, biochemical, and immunological techniques to study host–pathogen interactions, the microbiome, the role of predisposing factors (e.g., diabetes), inflammation, new drugs, and infection management techniques and diagnostics.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Inorganic Chemistry)

Contact Us

*International Journal of Molecular
Sciences* Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI