



## 10th Anniversary of Biomedicines—Biomarkers in Pain

Guest Editors:

**Dr. Mats B. Eriksson**

Department of Surgical Sciences,  
Anaesthesiology and Intensive Care  
Medicine, Uppsala University, 751  
85 Uppsala, Sweden

**Prof. Dr. Anders O. Larsson**

Department of Medical Sciences,  
Clinical Chemistry, Uppsala  
University, 751 85 Uppsala,  
Sweden

Deadline for manuscript  
submissions:  
**closed (15 June 2023)**

### Message from the Guest Editors

During the last decade, biomarkers related to chronic pain have been investigated. The discovery of such markers could not only be used to improve diagnoses and prognostication of patients with chronic pain but could also support those who file an insurance claim after an injury. Biomarkers of pain could also be used to distinguish different causes of pain, allowing for improved selection of treatments. Such markers could also provide pharmaceutical companies with a tool for evaluating pain relief effects in clinical trials.

The focus of this Special Issue of *Biomedicines* is on the value of biomarkers of pain in a broad perspective.

Biomarkers of pain may be used to identify and quantify pain of various origin in order to facilitate adequate therapeutic interventions. Extensive prescription of analgesics, especially opioids, is associated with overdose deaths. Although pain is a subjective experience, the use of determinants of pain as an end point in clinical trials may help to predict safety as well as the analgesic efficacy of new drugs.





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 - Q2 (*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](https://mdpi.com/journal/biomedicines)  
[biomedicines@mdpi.com](mailto:biomedicines@mdpi.com)  
X@Biomed\_MDPI