

## Special Issue

# Harnessing Photobiomodulation Light for Therapeutic or Prevention of Human Diseases

### Message from the Guest Editor

The human antioxidant system works as a complex unit to regulate reactive oxygen species (ROS). Cellular antioxidant defenses usually maintain ROS/reactive nitrogen species (RNS) at a concentration level that prevents an excess oxidation of cellular molecules. Mitochondrial dysfunction can result in a reduction in the synthesis of high-energy molecules such as adenosine triphosphate (ATP). Given the fundamental role of the mitochondrial organelle, organs and tissues require effective antioxidant therapy to illuminate the mitochondria, augment ATP production, and regulate ROS and nitric oxide to restore mitochondrial function. This is crucial in the management of several diseases. In this context, photobiomodulation (PBM) therapy has emerged as a non-invasive treatment modality in the management of pain, accelerating tissue repair and regeneration, due to its significant biomodulatory and anti-inflammatory effects. The aim of this *Special Issue* is to underline the advances of PBM in the management of diseases. Both original research and review papers are welcomed.

### Guest Editor

Prof. Dr. Reem Hanna

1. Department of Restorative Dental Sciences, UCL-Eastman Dental Institute, Medical Faculty, London WC1E 6DE, UK
2. Department of Surgical Sciences and Integrated Diagnostics, Laser Centre Therapy, University of Genoa, 16132 Genoa, Italy

### Deadline for manuscript submissions

20 August 2025



## Journal of Clinical Medicine

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by MDPI

Impact Factor 2.9  
CiteScore 5.2  
Indexed in PubMed



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*Journal of Clinical Medicine*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[jcm@mdpi.com](mailto:jcm@mdpi.com)

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Department of Acute Care Medicine, University of Tokyo, Tokyo, Japan

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