Special Issue

Shining Light on Healing: Photobiomodulation Therapy

Message from the Guest Editor

Photobiomodulation therapy (PBMT), also known as low-level light therapy (LLLT), has gained significant attention over the past decades for its non-invasive approach to modulating biological processes using low-intensity light in the red to near-infrared spectrum. This therapy has demonstrated promising outcomes in promoting tissue repair, reducing inflammation, alleviating pain, and modulating immune and neurological functions. As our understanding of light–tissue interactions deepens, new applications and mechanisms of action continue to emerge, expanding the therapeutic potential of PBMT across diverse medical fields. This Special Issue of *Photonics* aims to showcase recent advances in the science and clinical application of photobiomodulation therapy. We invite contributions that explore novel light sources, dosimetry protocols, molecular and cellular mechanisms, translational research, and clinical outcomes. Studies addressing interdisciplinary approaches, such as the integration of PBMT with neurorehabilitation, neuropsychiatry, immunomodulation, and regenerative medicine, are especially encouraged.

Guest Editor

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Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Photonics* (ISSN 2304-6732). *Photonics* is an online open access journal covering both the fundamental and applications of optics and photonics. *Photonics* strives to provide an avenue to allow authors to disseminate their scientific findings—both theoretical/ simulations and experimental works—in highly accessible peer-reviewed journal publications. The manuscript in *Photonics* will be handled with quick turnaround production processing time. We welcome authors to submit their manuscripts for publications in *Photonics*. Our goal in *Photonics* is to enable fast dissemination of high impact works to the scientific community.

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