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Photobiomodulation Therapy: Novel Medical Applications and New Insight into the Intracellular Molecular Impact

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Message from the Guest Editors

Photobiomodulation therapy (PBMT) is a noninvasive painless treatment already used in different human pathologic conditions. PBMT exploits the performance of laser light to promote tissue regeneration and wound healing, to alleviate pain and to decrease the inflammatory response through immunomodulation.

Despite the documented beneficial effects in several human disorders—for example, skin wounds, oral mucositis, ulcers, arthritis, and musculoskeletal pain—PBMT is still limitedly employed in the clinical practice, although its potential applications are currently increasing.

PBMT acts primarily on mitochondria, thus promoting and influencing several intracellular pathways, but other actors should be discovered. The gap of knowledge concerning the intracellular impact of PBMT can account for the selective employment of laser devices for few pathologies.

This Special Issue will invite researchers to address this topic, with special emphasis on new clinical applications of PBMT as well as on new insights into the molecular mechanisms at the basis of the effect of laser light within the cells. Both articles and research articles are encouraged.



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Special Issue



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Message from the Editor-in-Chief

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