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Knee Osteoarthritis and Photobiomodulation Therapy

Guest Editors:

Dr. Martin Bjørn Stausholm

Prof. Dr. Jan Magnus Bjordal

Dr. Roberta Chow

Prof. Mark I. Johnson

Deadline for manuscript
submissions:

closed (19 April 2024)

Message from the Guest Editors

In the recent osteoarthritis treatment guidelines established by the National Institute of Health Care Excellence in the U.K., therapeutic exercise and weight management are recommended alongside drug medication to alleviate pain.

PBMT applies red and near-infrared light over sites of pathology to facilitate tissue healing, reduce inflammation, and relieve pain. PBMT includes low-level laser therapy (LLLT), high-intensity laser therapy (HILT), and light-emitting diode therapy (LEDT). Both LLLT and LEDT have been studied for decades. The results of a systematic review of randomized placebo-controlled trials indicates that LLLT, at ≥ 4 J with 785–860 nm wavelength and at ≥ 1 J with 904 nm wavelength per treatment spot, can reduce pain and disability associated with knee osteoarthritis in humans. Likewise, there is some evidence to support the use of LEDT and HILT.

The purpose of this Special Issue of Life is to disseminate research and catalyze debate on all matters related to the use of PBMT in knee osteoarthritis. We welcome cell and animal studies, clinical trials, narrative and systematic reviews, and viewpoint articles.



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Special Issue



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Editor-in-Chief

Prof. Dr. Lluís Ribas de Pouplana

Institute for Research in Biomedicine (IRB Barcelona), The Barcelona Institute of Science and Technology, 08028 Barcelona, Spain

Message from the Editor-in-Chief

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Contact Us

Life Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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