## 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 thesynthesis 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**

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## **Deadline for manuscript submissions**

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