Special Issue

Brain Photobiomodulation: Searching for Predictive Target Engagement

Message from the Guest Editors

We welcome the submission of manuscripts including, but not limited to, the following topics:

- Applications of t-PBM in animal models of stress-related disorders, especially depression and anxiety, considering pathobiological insights into genetic vulnerability, altered hypothalamic–pituitary–adrenal (HPA) axis activity, monoamines dysfunction, deficiency of cerebral blood flow (CBF) in specific brain regions, neurotoxic and neurotrophic processes, reduced gamma-aminobutyric acid (GABA) activity, dysregulation of the glutamate system, impaired circadian rhythms, etc.;
- Preclinical and clinical studies involving t-PBM applications for neurodegenerative diseases (e.g., Alzheimer's and Parkinson's) and neuropsychiatric disorders (e.g., major depressive disorder (MDD)), thus aiming to target specific regions of the central nervous system (e.g., hippocampus, amygdala, prefrontal cortex (PFC), and anterior cingulate cortex (ACC)).
- Methodological and study protocol papers that advance the field by exemplifying the best approaches for t-PBM studies with specific neurophysiological targets will also be considered.

Guest Editors

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Deadline for manuscript submissions

closed (31 May 2024)

About the Journal

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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