



Brain Photobiomodulation: Searching for Predictive Target Engagement

Guest Editors:

Dr. Paolo Cassano

1. Division of Neuropsychiatry and Neuromodulation, Massachusetts General Hospital, 149 13th Street (2612), Boston, MA 02129, USA

2. Harvard Medical School, Boston, MA, USA

Dr. Willians Fernando Vieira

1. Division of Neuropsychiatry and Neuromodulation, Massachusetts General Hospital, 149 13th Street (2612), Boston, MA 02129, USA

2. Harvard Medical School, Boston, MA, USA

3. Department of Anatomy, Institute of Biomedical Sciences, University of Sao Paulo (USP), Sao Paulo, Brazil

Deadline for manuscript submissions:

closed (31 May 2024)

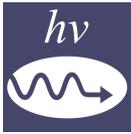


mdpi.com/si/138695

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.



photonics



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Nelson Tansu

School of Electrical and
Electronic Engineering (EEE), The
University of Adelaide, Adelaide,
SA 5005, Australia

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank: CiteScore - Q2 (Instrumentation)

Contact Us

Photonics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/photonics
photonics@mdpi.com
X@Photonics_MDPI