Brain Photobiomodulation: Searching for Predictive Target Engagement

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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.

Special Issue