Dear Editor,

We are pleased to submit our manuscript entitled "Acute Effects of Psilocybin on Attention and Executive Functioning in Healthy Volunteers: A Systematic Review and Multilevel Meta-Analysis" for consideration for publication in Psychopharmacology.

Our study provides the first comprehensive meta-analysis of psilocybin's acute effects on cognitive performance, specifically focusing on executive functions and attention. Given the increasing interest in psilocybin for treating various neuropsychiatric disorders, understanding its cognitive effects is crucial for assessing both its therapeutic potential and safety profile.

Key findings of our study include:

* Psilocybin significantly slows reaction times in a dose-dependent manner across various cognitive tasks.
* Effects on accuracy are less clear, with a trend towards reduced accuracy that did not reach statistical significance.
* The effects are moderated by dosage and the sensitivity of cognitive measures, but not by specific cognitive domains or timing of administration.
* Our analysis reveals potential publication bias, highlighting the need for more rigorous and transparent reporting and for conducting pre-registered studies in this field.

We believe our findings have important implications for the clinical use of psilocybin and contribute to the broader understanding of how psychedelics affect cognition. The multilevel meta-analytic approach we employed allows for a nuanced examination of heterogeneity across studies and our open-source approach to code and data provides an accessible methodological framework for future meta-analyses in this rapidly evolving field.

This manuscript has not been published or submitted for publication elsewhere. All authors have approved the manuscript and agree with its submission. We have no conflicts of interest to disclose.

We believe our work will be of great interest to the readership of Psychopharmacology given its interdisciplinary nature, combining psychopharmacology, cognitive neuroscience, and clinical psychology. We look forward to your response and are happy to address any questions or concerns you may have.

Thank you for your consideration.

Sincerely,

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