

# Review of: "Insights into Psychoactive Drug Effects: The Role of Drug Discrimination Techniques"

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**Potential competing interests:** No potential competing interests to declare.

The review article titled "**Insights into Psychoactive Drug Effects: The Role of Drug Discrimination Techniques**" has been reviewed. In the submission, the author overviewed the pivotal roles of drug discrimination techniques in understanding some relevant effects such as pharmacological, individual compatibility, mechanisms, and classification of psychoactive drugs. The study is significant for aiding the criteria, selectivity, and predictive validity of drug prescription, especially regarding psychoactive drugs, some of which are prone to undesired effects such as hallucination. The manuscript is well concluded with a concise take-home message and outlook for future scientific efforts. However, some grey areas currently affect its quality and necessitate improvement before the submission can be considered for publication. Thus, I recommend a reconsideration for acceptance following some major revisions, addressing the comments highlighted below.

1. Understandably, the drug abuse phenomenon is not only relevant to psychoactive drugs; it is rather a general term. The authors need to address this in the introduction section.
2. What are psychoactive drugs? Could the authors define this and cite a few examples in the first paragraph of the introduction, since it forms the base of this manuscript?
3. In the introduction section, authors should recognize some previous review works undertaken by scientists on this subject (e.g., <https://doi.org/10.1017/s0140525x11000057>; [https://doi.org/10.1007%2F7854\\_2016\\_10](https://doi.org/10.1007%2F7854_2016_10); <https://doi.org/10.1038/nprot.2006.167>), identify the gaps in those reports, and build on the gaps to justify the necessity of this piece. Moreover, the aim, objectives, and methodology of this work are expected to be mentioned.
4. Several facts presented in the manuscript are not referenced accordingly. For instance, the key information on page 2, paragraphs 2, 3, and 5, sections 3.5-3.6, and many other parts of the write-up are poorly referenced. Kindly cite appropriate references since the facts did not originate from the authors' efforts.
5. Kindly define every abbreviation at the first mention and then adopt consistent usage thereafter.
6. Although the English language of the manuscript is averagely okay, a recheck by an expert would improve its quality.