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May 16, 2023,

Dear T. Planek,

We would like to submit for your review an original research article entitled, “Detecting changes in pupil response to light associated with cannabis consumption” for consideration by the Journal of Safety Research.

We confirm that this work is original and has not been published elsewhere, nor is it currently under consideration for publication elsewhere.

In this paper, we examine pairing functional data analysis methods, a new field in statistics, with pupillary light response to identify differences in trajectories due to recent cannabis use. We are able show differences in trajectories based solely on the pupillary light response after smoking cannabis regardless of cannabis use history. Results from this study provide evidence that pupillary light response may be an objective, and validated measure of recent cannabis use, making it an asset in the prevention of cannabis-involved roadside accidents and workplace injuries.

We have no conflicts of interest to disclose.

Please address all correspondence concerning this manuscript to me at [suneeta.godbole@cuanschutz.edu](mailto:suneeta.godbole@cuanschutz.edu).

Thank you for your consideration of this manuscript.

Sincerely,

Suneeta V. Godbole