

**Author(s)**

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**1) Have any data been collected for this study already?**

No, no data have been collected for this study yet.

**2) What's the main question being asked or hypothesis being tested in this study?**

We aim to examine whether (a) psychedelic use is associated with mean level Five-Factor model (FFM) personality differences; and (b) FFM domains/facets are associated with psychedelic use and certain types of psychedelic experiences.

Hypotheses: Openness will show the following mean-level patterns:

H1: Among individuals who have not taken psychedelics, interest in trying psychedelics will be associated with greater mean-level Openness.

H2: Individuals who have taken psychedelics will exhibit higher mean-level Openness than both other groups (i.e., individuals who have strong interest in taking psychedelics, but have not taken psychedelics; individuals with no interest in taking psychedelics and have not taken psychedelics).

H3: Frequency of psychedelic-induced mystical experiences will be associated with greater mean-level Openness.

H4: Individuals who have taken psychedelics will report personality change on the domain of Openness.

Other analyses are exploratory.

**3) Describe the key dependent variable(s) specifying how they will be measured.**

The key dependent variables will be FFM domains, measured using the Big Five Aspects Scale (BFAS; DeYoung, Quilty, Peterson, 2007), the IPIP NEO 60 (Maples-Keller et al., 2017), and the Ten-item Personality Inventory (TIPI, Gosling, Rentfrow, & Swann, 2003).

**4) How many and which conditions will participants be assigned to?**

Two conditions. Individuals who have not taken psychedelics will fill out all self-report measures. Individuals who have taken psychedelics will fill out all self-report measures and open-ended questions about their most intense experience.

**5) Specify exactly which analyses you will conduct to examine the main question/hypothesis.**

Bivariate correlations (e.g., frequency of mystical experience and Openness; interest in trying psychedelics and Openness) and regression analyses will be performed in which Openness will be regressed onto a grouping variable (i.e., indicative of either not taking psychedelics with no interest in doing so, not taking psychedelics with interest in doing so, and taking psychedelics).

**6) Describe exactly how outliers will be defined and handled, and your precise rule(s) for excluding observations.**

We will remove some number of participants on the basis of invalid responding on the two EPA validity scales according to previously used cut-offs (Lynam et al., 2011), responding deemed too fast to be valid (i.e., < 15 minutes), or random responding (i.e., responding with 85% or more of the same answer such as all 1s).

**7) How many observations will be collected or what will determine sample size? No need to justify decision, but be precise about exactly how the number will be determined.**

Three subsamples are planned: a collection of 200 valid responders who have taken psychedelics, 100 valid responders who have not taken psychedelics and have no interest in trying them, and 100 valid responders who have not taken psychedelics who have interest in trying them.

**8) Anything else you would like to pre-register? (e.g., secondary analyses, variables collected for exploratory purposes, unusual analyses planned?)**

None