

1 **Proposal of 5-methoxy-*N*-methyl-*N*-isopropyltryptamine consumption**
2 **biomarkers through identification of *in vivo* metabolites from mice.**

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15 **Highlights**

- 16 • Metabolism and pharmacokinetic of tryptamine 5-MeO-MiPT was studied.
- 17 • Two Phase I and two Phase II metabolites were elucidated by UHPLC-HRMS.
- 18 • Pharmacokinetic was studied in serum and urine collected at different times.
- 19 • 5-MeO-MiPT and the *O*-demethylated metabolite are proposed as consumption
20 markers.
- 21 • These markers were detected in mice urine collected 24 hours after
22 administration.