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A recreational dose of methylphenidate, but not methamphetamine, decreases anxiety-like behavior in female rats

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Highlights

- MPH and METH effects on anxiety in females have not been previously studied.
- Acute and chronic dosing was used to determine changes in anxiety during the EPM.
- MPH, given acute or chronic, decreased anxiety in adult female rats.
- METH and MPH altered locomotion during an open field test, but not during the EPM.
- Adult female rats given MPH show evidence of an anxiolytic effect.

ABSTRACT

Methylphenidate (MPH) and methamphetamine (METH) are two commonly abused psychomotor stimulants that impact anxiety, but in a manner that is currently unclear. This study adds to the literature by testing the effects of MPH and METH on anxiety in adult

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