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

Authors: Jessica A. Boyette-Davis, Heather R. Rice, Roanne I. Shoubaki, Chantal M.F. Gonzalez, Marcela N. Kunkel, Devon A. Lucero, Paige D. Womble, Fay A. Guarraci

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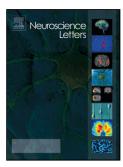
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ACCEPTED MANUSCRIPT

RUNNING HEAD: STIMULANTS AND ANXIETY

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

Jessica A. Boyette-Davis*a, Heather R. Riceb, Roanne I. Shoubakib, Chantal M. F. Gonzalezb, Marcela N. Kunkela, Devon A. Lucerob, Paige D. Wombleb, Fay A. Guarracib

- ^a Department of Psychology and Behavioral Neuroscience, St. Edward's University, Austin, TX 78704 USA
- ^b Department of Psychology, Southwestern University, Georgetown, TX 78626 USA
- * Corresponding Author: jboyette@stedwards.edu; 3001 S Congress, Austin TX 78704 USA

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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