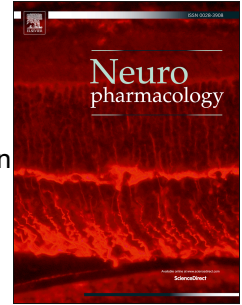


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Persistent effect of withdrawal from intravenous methamphetamine self-administration on brain activation and behavioral economic indices involving an effort cost**Evan E. Hart*¹, Julian O. Gerson¹, and Alicia Izquierdo*¹⁻⁴**¹Department of Psychology, University of California at Los Angeles, Los Angeles, CA, USA²The Brain Research Institute, University of California at Los Angeles, Los Angeles, CA, USA³Integrative Center for Learning and Memory, University of California at Los Angeles, CA, USA⁴Integrative Center for Addictions, University of California at Los Angeles, CA, USA**Author contributions:** EEH and AI designed the research; EEH and JOG performed the research; EEH, JOG, and AI analyzed data; EEH and AI wrote the paper.**Correspondence**

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