Accepted Manuscript

Putting Fear in Context: Elucidating the Role of the Retrosplenial Cortex in Context Discrimination in Rats

Siobhan Robinson, Julia S. Adelman, Allison S. Mogul, Peter C.J. Ihle, Gianna M. Davino

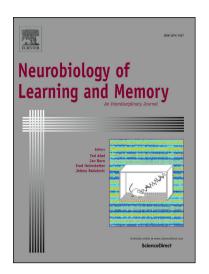
PII: S1074-7427(17)30217-4

DOI: https://doi.org/10.1016/j.nlm.2017.12.009

Reference: YNLME 6777

To appear in: Neurobiology of Learning and Memory

Received Date: 14 September 2017 Revised Date: 15 December 2017 Accepted Date: 29 December 2017



Please cite this article as: Robinson, S., Adelman, J.S., Mogul, A.S., Ihle, P.C.J., Davino, G.M., Putting Fear in Context: Elucidating the Role of the Retrosplenial Cortex in Context Discrimination in Rats, *Neurobiology of Learning and Memory* (2017), doi: https://doi.org/10.1016/j.nlm.2017.12.009

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

Putting Fear in Context: Elucidating the Role of the Retrosplenial Cortex in Context Discrimination in Rats

Siobhan Robinson^a, Julia S. Adelman^b, Allison S. Mogul^a, Peter C. J. Ihle^b & Gianna M. Davino^a

^aDepartment of Psychology and Program in Neuroscience, Hamilton College, Clinton, NY 13323 ^bDepartment of Neuroscience, Oberlin College, Oberlin, OH, 44074

Abbreviated title: Retrosplenial cortex and context discrimination

Abstract: 247 words

Figures: 6
Tables: 1
Text pages: 21

Discussion: 2466 words

Total pages: 31 (including references)

Conflict of interest: The authors declare no competing financial interests.

Acknowledgements: The authors thank Sally Corney for the care she provided for the animals and Steve Pullman for technical assistance. We also thank Anastasia Shou and Jessica Hubert for assistance with data collection.

Corresponding Author

Siobhan Robinson, PhD

Hamilton College

Department of Psychology & Program in Neuroscience

3065 Taylor Science Center

198 College Hill Road

Clinton, NY, 13323 USA

Office phone: 315.895.4165

sxrobins@hamilton.edu

This research did not receive any specific grant from funding agencies in the public, commercial, or not-for-profit sectors. The authors are grateful for the financial support provided by Hamilton College and Oberlin College.

NLM 14-243 - revision

Highlights

The sensory preconditioning task can be used to assess complex learning.

Discrimination learning is impaired following retrosplenial cortex lesions.

Learning, memory and/or emotional regulation may involve the retrosplenial cortex.

Download English Version:

https://daneshyari.com/en/article/7298886

Download Persian Version:

https://daneshyari.com/article/7298886

<u>Daneshyari.com</u>