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Early life social stress and resting state functional connectivity in postpartum rat anterior cingulate circuits

Benjamin C. Nephew^{1*}, Marcelo Febo², Wei Huang³, Luis M. Colon-Perez², Laurelee Payne³,
Guillaume L. Poirier³, Owen Greene¹, Jean A. King³

¹Department of Biomedical Sciences, Tufts University Cummings School of Veterinary Medicine, 200 Westborough Road, North Grafton, MA, 01536. 508-641-0865, bcnephew@aol.com.

²Department of Psychiatry, McKnight Brain Institute, University of Florida College of Medicine, Gainesville, FL, 32611

³Center for Comparative NeuroImaging, Department of Psychiatry, University of Massachusetts Medical School, Worcester, MA, 01655

* Corresponding author

ABSTRACT

Introduction

Continued development and refinement of resting state functional connectivity (RSFC) fMRI techniques in both animal and clinical studies has enhanced our comprehension of the adverse effects of stress on psychiatric health. The objective of the current study was to assess both maternal behavior and resting state functional connectivity (RSFC) changes in these animals when they were dams caring for their own young. It was hypothesized that ECSS exposed dams would express depressed maternal care and exhibit similar (same networks), yet different specific changes in RSFC (different individual nuclei) than reported when they were adult females.

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