

# Accepted Manuscript

The Perimenopausal Aging Transition in the Female Rat Brain: Decline in Bioenergetic Systems and Synaptic Plasticity

Fei Yin, Jia Yao, Harsh Sancheti, Tao Feng, Roberto C. Melcangi, Todd E. Morgan, Caleb E. Finch, Christian J. Pike, Wendy J. Mack, Enrique Cadenas, Roberta D. Brinton

PII: S0197-4580(15)00198-0

DOI: [10.1016/j.neurobiolaging.2015.03.013](https://doi.org/10.1016/j.neurobiolaging.2015.03.013)

Reference: NBA 9245

To appear in: *Neurobiology of Aging*

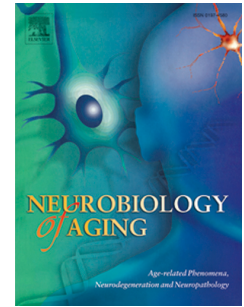
Received Date: 19 December 2014

Revised Date: 20 February 2015

Accepted Date: 25 March 2015

Please cite this article as: Yin, F., Yao, J., Sancheti, H., Feng, T., Melcangi, R.C., Morgan, T.E., Finch, C.E., Pike, C.J., Mack, W.J., Cadenas, E., Brinton, R.D., The Perimenopausal Aging Transition in the Female Rat Brain: Decline in Bioenergetic Systems and Synaptic Plasticity, *Neurobiology of Aging* (2015), doi: 10.1016/j.neurobiolaging.2015.03.013.

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.



1  
2  
3 **The Perimenopausal Aging Transition in the Female Rat Brain:**  
4 **Decline in Bioenergetic Systems and Synaptic Plasticity**  
5

6  
7  
8  
9 Fei Yin<sup>1</sup>, Jia Yao<sup>1</sup>, Harsh Sancheti<sup>1</sup>, Tao Feng<sup>2</sup>, Roberto C. Melcangi<sup>3</sup>,  
10 Todd E. Morgan<sup>4</sup>, Caleb E. Finch<sup>4</sup>, Christian J. Pike<sup>4</sup>,  
11 Wendy J. Mack<sup>2</sup>, Enrique Cadenas<sup>1</sup>, and Roberta D. Brinton<sup>1,5\*</sup>  
12

13  
14 *1. Department of Pharmacology and Pharmaceutical Sciences, School of Pharmacy,*  
15 *University of Southern California, Los Angeles, CA, 90089 USA*

16 *2. Department of Preventive Medicine, Keck School of Medicine,*  
17 *University of Southern California, Los Angeles, CA, 90089 USA*

18 *3. Department of Pharmacological and Biomolecular Sciences, University of Milan, Milan, Italy*

19 *4. Davis School of Gerontology, University of Southern California, Los Angeles, CA, 90089 USA*

20 *5. Department of Neurology, Keck School of Medicine,*  
21 *University of Southern California, Los Angeles, CA, 90089 USA*  
22

23  
24  
25  
26  
27 **Abbreviated Title** – Perimenopausal transition of the female brain

28 **Figures:** 6 (Color production in print: Figs. 3&5)

29 **Tables:** 2  
30

31 

---

<sup>\*</sup>To whom correspondence should be addressed:

32 Roberta D. Brinton

33 Department of Pharmacology & Pharmaceutical Sciences, School of Pharmacy

34 University of Southern California

35 1985 Zonal Avenue, PSC-502

36 Los Angeles, CA 90089, USA

37 Tel: 323-442-1436

38 Fax: 323-442-1740

39 Email: rbrinton@usc.edu

Download English Version:

<https://daneshyari.com/en/article/6804144>

Download Persian Version:

<https://daneshyari.com/article/6804144>

[Daneshyari.com](https://daneshyari.com)