Accepted Manuscript

Effects of chronic mild stress on behavioral and neurobiological parameters — Role of glucocorticoid

Jiao Chen, Zhen-zhen Wang, Wei Zuo, Suai Zhang, Shi-feng Chu, Nai-hong Chen

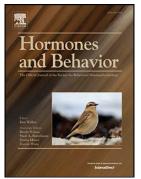
 PII:
 S0018-506X(15)30178-1

 DOI:
 doi: 10.1016/j.yhbeh.2015.11.006

 Reference:
 YHBEH 3989

To appear in: Hormones and Behavior

Received date:20 April 2015Revised date:5 November 2015Accepted date:20 November 2015



Please cite this article as: Chen, Jiao, Wang, Zhen-zhen, Zuo, Wei, Zhang, Suai, Chu, Shi-feng, Chen, Nai-hong, Effects of chronic mild stress on behavioral and neurobiological parameters — Role of glucocorticoid, *Hormones and Behavior* (2015), doi: 10.1016/j.yhbeh.2015.11.006

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

Effects of chronic mild stress

on behavioral and neurobiological parameters - role of glucocorticoid

Jiao Chen^a, Zhen-zhen Wang^a, Wei Zuo^a, Suai Zhang^a, Shi-feng Chu^a, Nai-hong Chen^{a,b,*}

^a State Key Laboratory of Bioactive Substances and Functions of Natural Medicines, Institute of Materia & Neuroscience Center, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, China

^b Hunan University of Chinese Medicine, Changsha, China

ABSTRACT

Major depression is thought to originate from maladaptation to adverse events, particularly when impairments mood-related brain regions. occur in Hypothalamus-pituitary-adrenal (HPA) axis is one of the major systems involved in physiological stress response. HPA axis dysfunction and high glucocorticoid concentrations play an important role in the pathogenesis of depression. In addition, astrocytic disability and dysfunction of neurotrophin brain-derived neurotrophin factor (BDNF) greatly influence the development of depression and anxiety disorders. Therefore, we investigated whether depressive-like and anxiety-like behaviors manifest in the absence of glucocorticoid production and circulation in adrenalectomized (ADX) rats after chronic mild stress (CMS) exposure and its potential molecular mechanisms. The results demonstrate that glucocorticoid-controlled rats showed anxiety-like

^{*} Correspondence: Professor N-H Chen, Tel: + 86 10 63165177, Fax: + 86 1063165177, E-mail:chennh@imm.ac.cn

Download English Version:

https://daneshyari.com/en/article/6794604

Download Persian Version:

https://daneshyari.com/article/6794604

Daneshyari.com