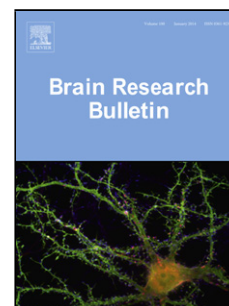


Accepted Manuscript

Title: Modulatory role of the intra-accumbal CB1 receptor in protein level of the c-fos and pCREB/CREB ratio in the nucleus accumbens and ventral tegmental area in extinction and morphine seeking in the rats

Authors: Hossein Khaleghzadeh-Ahangar, Fariba Khodaghali, Fatemeh Shaerzadeh, Abbas Haghparast



PII: S0361-9230(18)30294-6
DOI: <https://doi.org/10.1016/j.brainresbull.2018.08.017>
Reference: BRB 9499

To appear in: *Brain Research Bulletin*

Received date: 19-4-2018
Revised date: 26-6-2018
Accepted date: 25-8-2018

Please cite this article as: Khaleghzadeh-Ahangar H, Khodaghali F, Shaerzadeh F, Haghparast A, Modulatory role of the intra-accumbal CB1 receptor in protein level of the c-fos and pCREB/CREB ratio in the nucleus accumbens and ventral tegmental area in extinction and morphine seeking in the rats, *Brain Research Bulletin* (2018), <https://doi.org/10.1016/j.brainresbull.2018.08.017>

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.

Modulatory role of the intra-accumbal CB1 receptor in protein level of the c-fos and pCREB/CREB ratio in the nucleus accumbens and ventral tegmental area in extinction and morphine seeking in the rats

**Hossein Khaleghzadeh-Ahangar^{1&2}, Fariba Khodagholi³, Fatemeh Shaerzadeh^{4,5}
and Abbas Haghparast^{3,*}**

- ^{1.} *Department of Physiology, School of Medicine, Babol University of Medical Sciences, Babol, Iran*
- ^{2.} *Neuroscience Research Center, Health Research Institute, Babol University of Medical Sciences, Babol, Iran*
- ^{3.} *Neuroscience Research Center, School of Medicine, Shahid Beheshti University of Medical Sciences, P.O.Box 19615-1178, Tehran, Iran*
- ^{4.} *Molecular Medicine Research Center, Hormozgan Health Institute, Hormozgan University of Medical Sciences, Bandar Abbas, Iran*
- ^{5.} *Department of Neuroscience, University of Florida College of Medicine and McKnight Brain Institute, Gainesville, FL 32610, USA*

*** Correspondence should be sent to:**

Abbas Haghparast, PhD

Neuroscience Research Center, Shahid Beheshti University of Medical Sciences

P.O.Box 19615-1178, Tehran, Iran

Tel/fax: +98-21-2243-1624

Email: Haghparast@yahoo.com; Haghparast@sbmu.ac.ir

Research highlight

Download English Version:

<https://daneshyari.com/en/article/10106894>

Download Persian Version:

<https://daneshyari.com/article/10106894>

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