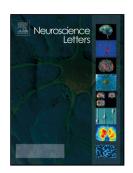
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Author: Atiyeh Taghavi-Khalil Abad Hossein Miladi-Gorji PhD Associate Professor Imanollah Bigdeli



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ACCEPTED MANUSCRIPT

Effects of swimming exercise on morphine-induced reward and behavioral sensitization in maternally-separated rat pups in the conditioned place preference procedure

Atiyeh Taghavi-Khalil Abad¹, Hossein Miladi-Gorji^{*2}, Imanollah Bigdeli³

- 1- Faculty of Educational Sciences and Psychology, Ferdowsi University of Mashhad, Mashhad, Iran
- 2- Laboratory of Animal Addiction Models, Research Center and Department of Physiology, School of Medicine, Semnan University of Medical Sciences, Semnan, Iran.
- 3- Faculty of Psychology and Educational Sciences, University of Semnan, Semnan, Iran.

*Corresponding author at: Hossein Miladi-Gorji, (PhD) Associate Professor of

Physiology, Laboratory of Animal Addiction Models, Research Center and Department of Physiology, School of Medicine, Semnan University of Medical Sciences, P.O. Box 35131-38111, Semnan, Iran.

Email: Miladi331@yahoo.com (H. Miladi-Gorji)

Mobile phone no:

+98 9125313069

Fax: +98 23 33354186

Research highlights

- Maternal separation increased morphine preference and behavioral sensitization.
- Swimmer maternally separated pups exhibited a decrease in CPP in both sexes.
- Swimming decreased behavioral sensitization in maternally separated male pups.

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