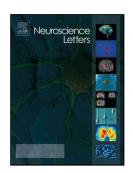
## Accepted Manuscript

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

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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

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## **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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