



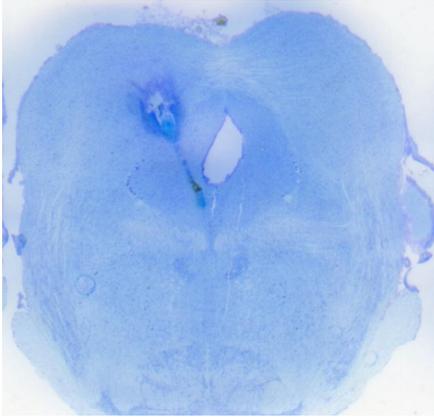
HOKKAIDO UNIVERSITY

Title	The Serotonergic Projection from the Median Raphe Nucleus to the Ventral Hippocampus is Involved in the Retrieval of Fear Memory Through the Corticotropin-Releasing Factor Type 2 Receptor
Author(s)	Ohmura, Yu; Izumi, Takeshi; Yamaguchi, Taku et al.
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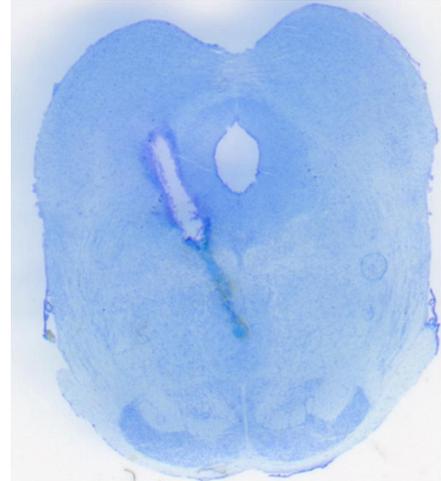


Supplemental Figure 1.

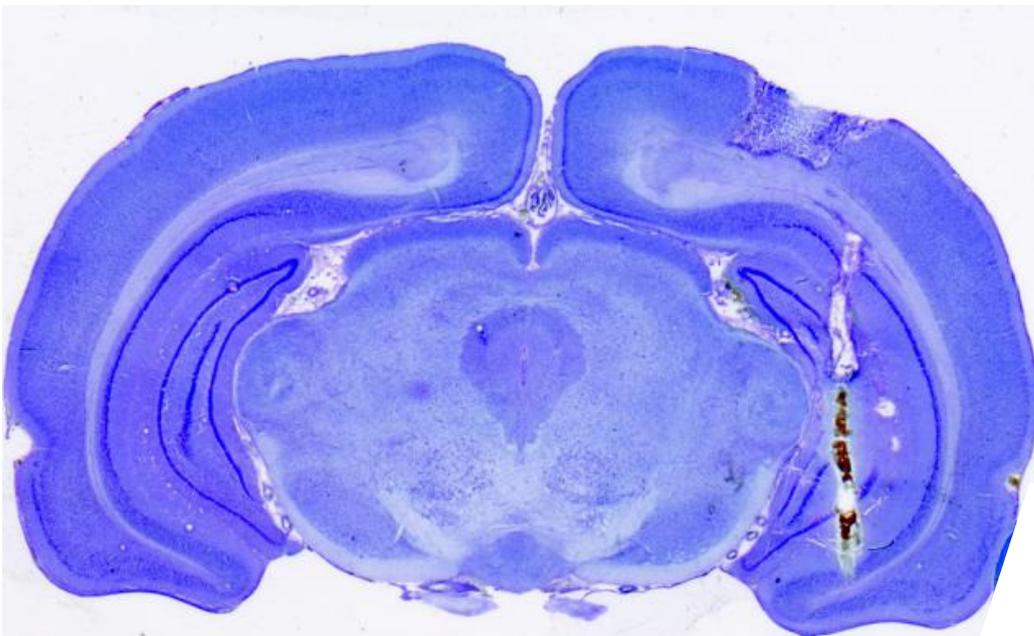
A. Dorsal raphe



B. Median raphe

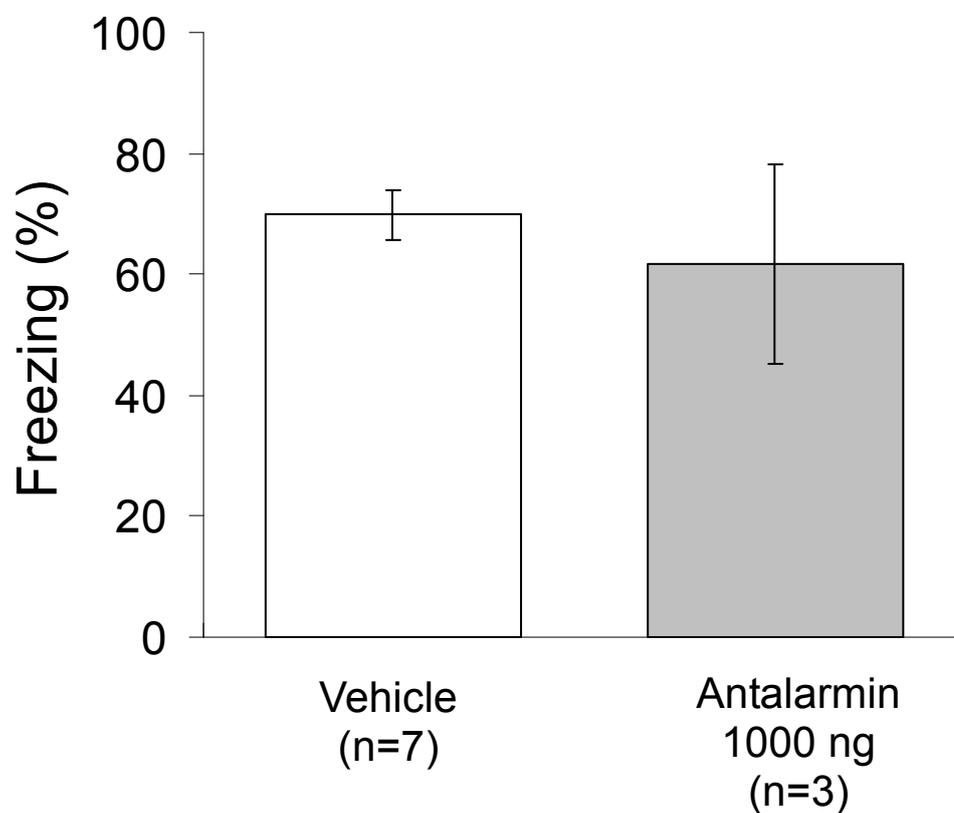


C. Ventral hippocampus



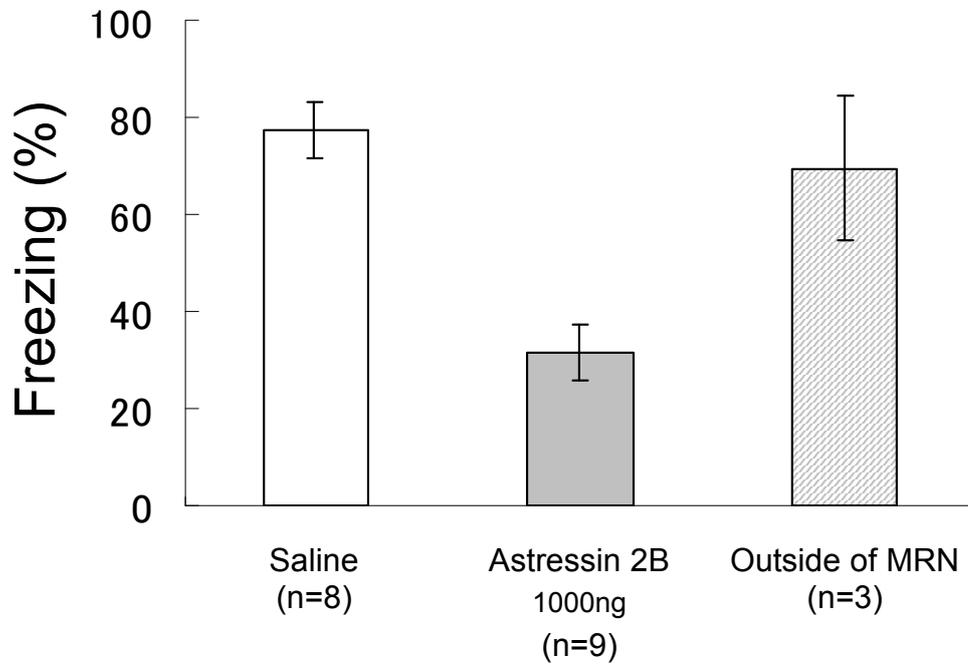
Photomicrographs showing coronal section of typical site of an (A, B) injection cannula and (C) microdialysis probe.

Supplemental Figure 2



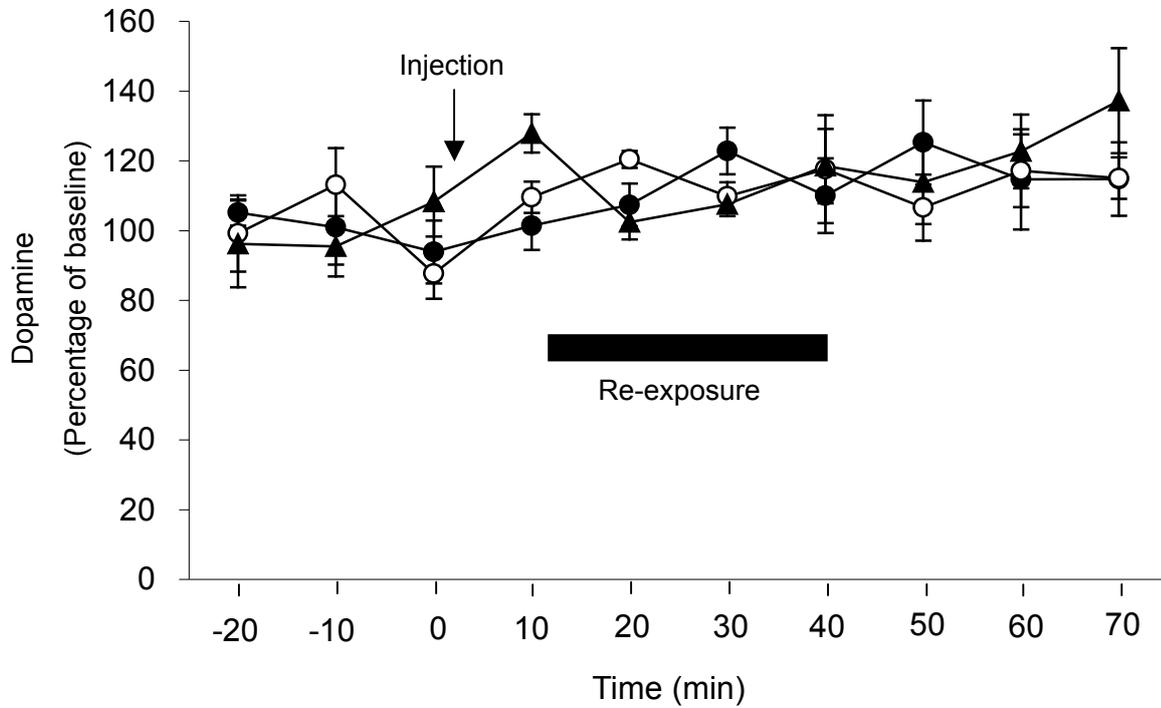
Preliminary results of the effects of intra-MRN injection of a higher dose of antalarmin (1000 ng) on freezing behavior in contextual fear conditioning test. Ten minutes before the start of behavioral tests, CRF antagonist or vehicle was injected into the MRN. Bars represent mean freezing rate and lines represent S.E.M.

Supplemental Figure 3



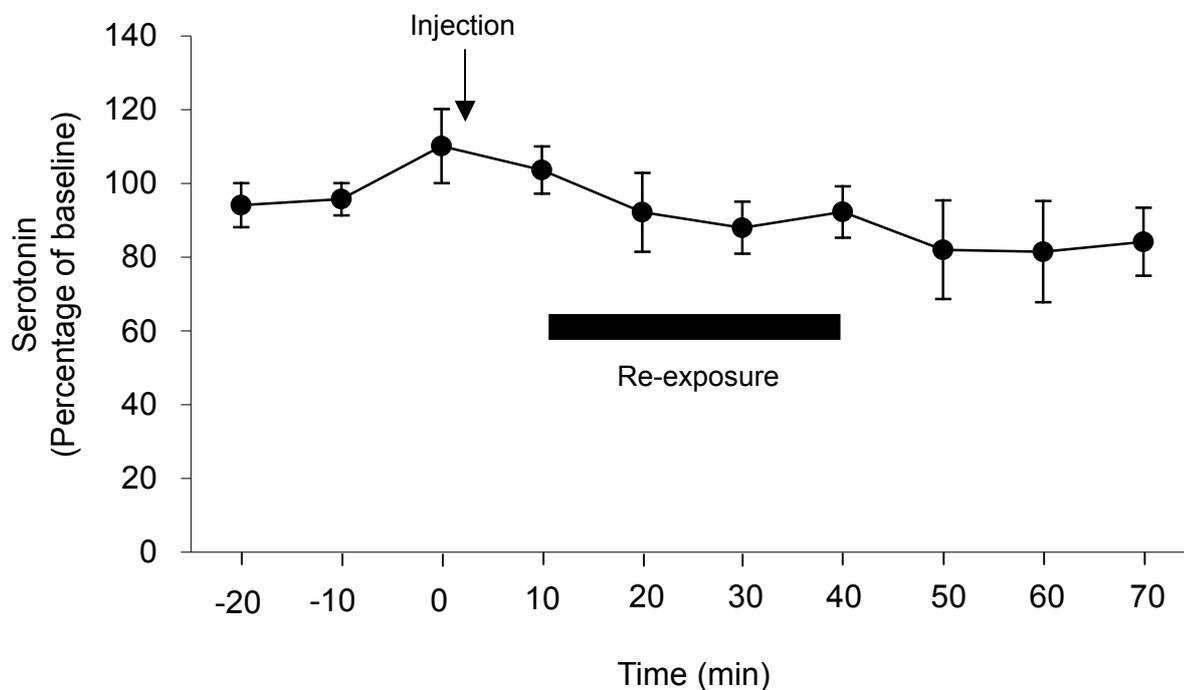
Preliminary data from animals that had cannula placements outside of the MRN. Ten minutes before the start of behavioral tests, 1000 ng of stressin 2B was injected into outside of the MRN. Bars represent mean freezing rate and lines represent S.E.M.

Supplemental Figure 4



The time course of extracellular dopamine levels changes in the ventral hippocampus. Filled circles represent rats that had received footshocks 24 hours before re-exposure and received an injection of saline on the testing day (n=6). Open circles represent rats that had received footshock and an injection of astressin 2B (n=5). Filled triangles represent rats that had been placed in the footshock box without footshocks and received an injection of saline (n=5). Some subjects were omitted because unknown peaks sometimes overlapped with the peak indicating dopamine. Data are given as mean \pm S.E.M.

Supplemental Figure 5



Preliminary results (n=3) of the time course of extracellular serotonin levels changes in the dorsal hippocampus. For this experiment, a guide cannula (AG-4, Eicom Co. Ltd., Japan) was implanted into the dorsal hippocampus: 3.3 mm posterior to bregma, 2.2 mm lateral to the midline, 1.6 mm ventral to the dura. In the testing day, a dialysis probe (2 mm long and 0.22 mm in outer diameter; A-I-4-02, Eicom Co. Ltd., Japan) was inserted through the guide cannula. Rats had received footshocks 24 hours before re-exposure and received an injection of saline on the testing day. Other procedures were the same as the experiments of ventral hippocampus.