

Orexin neurons in hypothalamus contribute to odor-induced analgesia

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To reveal the central neuronal circuit underlying the odorant-X induced analgesia, I examined the contribution of hypothalamic orexin neurons, one of the higher centers for the intrinsic analgesia-system. Formalin test revealed that the odorant-X induced analgesia was not observed in orexin mutant mice, indicating that the orexin neurons are essential for the odorant-X induced analgesia.