

The Journal of Neuroscience

July 20, 2011 • Volume 31 Number 29 • www.jneurosci.org



Cover legend: Distribution of orexin-immunoreactive neurons in a horizontal brain slice from an *orexin/Halorhodopsin* transgenic mouse. A small number of orexin-immunoreactive neurons located in the lateral hypothalamic area project throughout the brain to control sleep/wakefulness. Acute optogenetic silencing of orexin neurons induces slow-wave sleep, suggesting the activity of orexin neurons is important for maintaining arousal. For more information, see the article by Tsunematsu et al. in this issue (pages 10529–10539).

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