

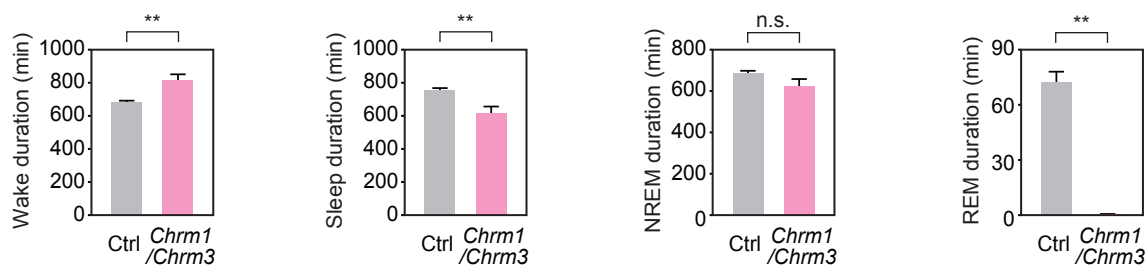
EXPANSION FIGURE

Related to Niwa et al.^[1]

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This figure was drawn outside the review process for readers who have an extensive interest in the phenotype of the abolished REM sleep. The ES-cell-derived mice reaffirmed the phenotype observed in CRISPR mice. This figure is not included in the published paper.



Sleep phenotypes of ES-cell-derived *Chrm1/3* double KO mice

The durations of total wake, total sleep, NREM sleep, and REM sleep of ES-cell-derived *Chrm1/3* double KO mice ($n = 7$) and control mice ($n = 8$) measured by EEG and EMG recordings. The data are from the identical experiment of Figure 6M. Error bars, SEM. * $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$.

[1] Niwa Y, Kanda GN, Yamada RG et al., Muscarinic acetylcholine receptors *Chrm1* and *Chrm3* are essential for REM sleep. *Cell Reports* (2018) DOI: 10.1016/j.celrep.2018.07.082