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## ARTICLE

Published online: 8 May 2005; | doi:10.1038/nn1464

### Reversible blockade of experience-dependent plasticity by calcineurin in mouse visual cortex

Yupeng Yang, Quentin S Fischer, Ying Zhang, Karsten Baumgärtel, Isabelle M Mansuy & Nigel W Daw

[Supplementary Fig. 1 \(GIF 6K\)](#)

Lack of ocular dominance plasticity with an intact onset of the critical period in CNO mice. (a) Calcineurin transgene is suppressed by doxycycline treatment from birth to P21 after the typical onset of the critical period (P19, Gordon and Stryker, 1996). The animals are monocularly deprived at P28, and recordings are performed four days later. (b) Columns showing ocular dominance distribution after monocular deprivation in CNO mice, which is identical to that in non-deprived wild-type mice (solid line), but significantly different from that in deprived wild-type mice (dash line,  $P < 0.0001$ ,  $\bar{I} \pm 2$  test), indicating the impaired ocular dominance plasticity.

[Supplementary Fig. 2 \(GIF 18K\)](#)

LTD is normal in visual cortex in CNO mice. LTD was induced by 15-min 1-Hz presynaptic stimulation paired with postsynaptic depolarization in CNO mice ( $77 \pm 5\%$ ,  $n = 8$ ;  $P < 0.01$ , compare to the baseline), which was identical to that observed in wild type animals ( $74.7 \pm 3.1\%$ ).

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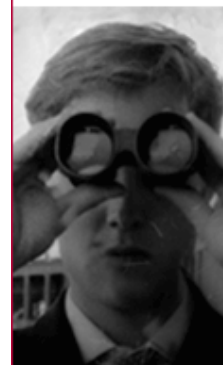
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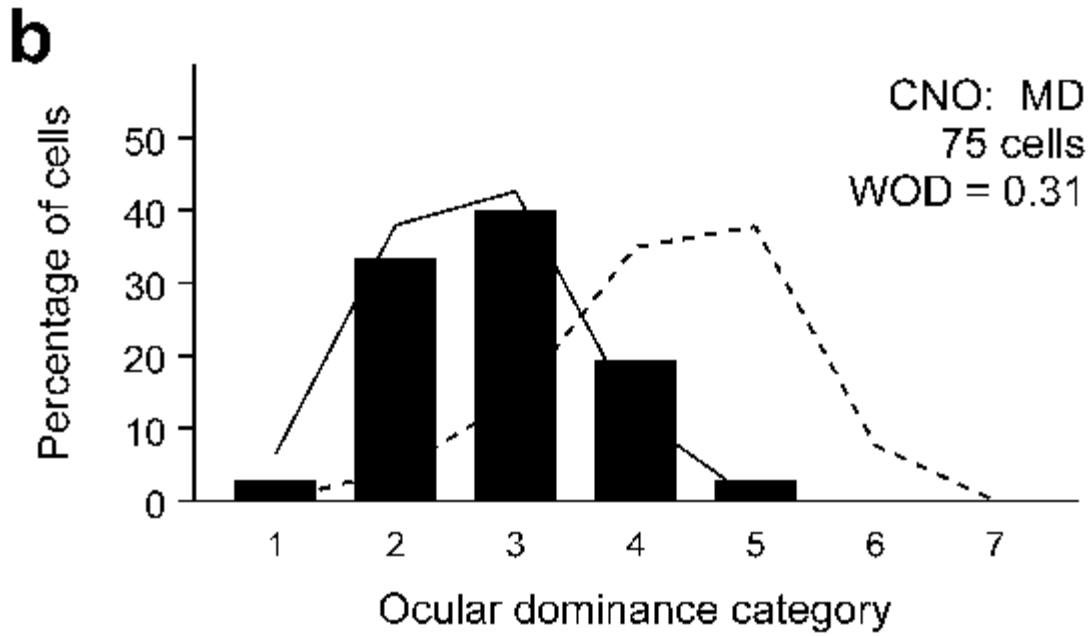
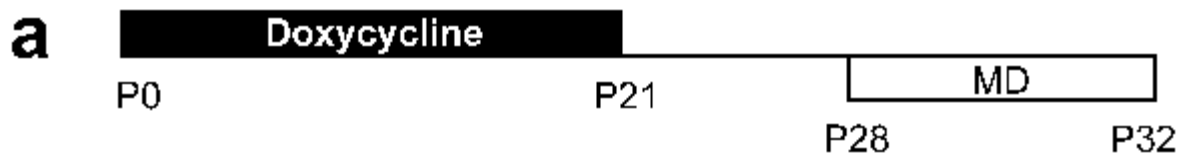
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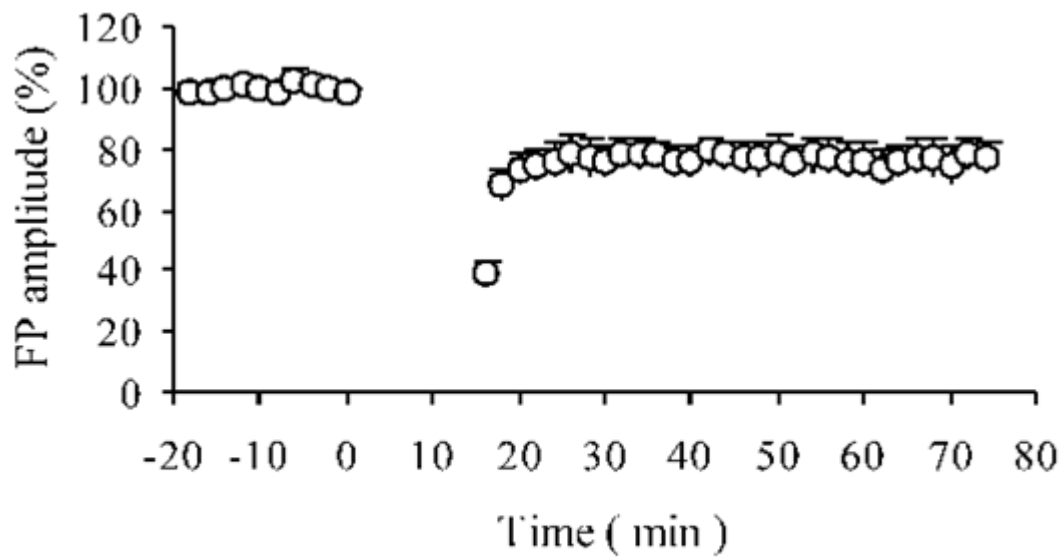
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○ CNO (8 slices from 5 mice)