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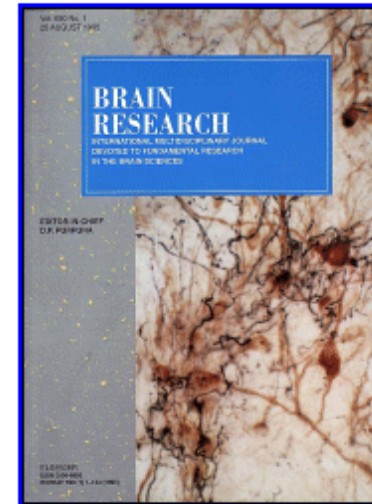
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Increased masking response to light after ablation of the visual cortex in mice

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Title: Increased masking response to light after ablation of the visual cortex in mice

Authors: Redlin, Uwe; Cooper, Howard M.; Mrosovsky, N.

Keywords: Neural basis of behavior; Biological rhythms and sleep; Irradiance detection; Lateral geniculate; Locomotor activity; Masking; Mouse; Nonvisual photoreception; Retinal degeneration; Visual cortex; IGL, intergeniculate leaflet; dLGN, dorsal lateral geniculate; ZT, zeitgeber time; SC, superior colliculus; SCb, brachium of the superior colliculus; LD, light-dark; SCN, suprachiasmatic nucleus; PRT, pretectum

Abstract (English): Mice are known to suppress their wheel running when given a pulse of light in the night (masking response). The amount of suppression can be quantified; the response varies with the level of irradiance used during the light pulse. After ablation of the visual cortex, mice suppressed their activity more than sham-operated controls. In addition, the lesioned animals responded to lower levels of irradiance than controls. It is suggested that the visual cortex is not needed for the suppression of locomotor activity after a light pulse. Nevertheless it exerts an inhibitory influence on the masking response to light mediated by an irradiance detection system. When this inhibition is removed, even though pattern vision is lost, masking responses to ambient level of light are enhanced.

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Title: Increased masking response to light after ablation of the visual cortex in mice

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Keywords: Neural basis of behavior; Biological rhythms and sleep; Irradiance detection; Lateral geniculate; Locomotor activity; Masking; Mouse; Nonvisual photoreception; Retinal degeneration; Visual cortex; IGL, intergeniculate leaflet; dLGN, dorsal lateral geniculate nucleus; SCb, subpretectal nucleus

Abstract (English):

Mice are known to suppress their wheel running when given a pulse of light in the night (masking response). The amount of suppression of the suprachiasmatic nucleus (SCN) activity is dependent on the intensity of the light. When the amount of light is low, the amount of suppression is high. When the amount of light is high, the amount of suppression is low. In the present study, we investigated the effect of ablation of the visual cortex on the masking response. Mice with ablated visual cortex showed a significantly enhanced masking response to ambient level of light. This enhancement was not observed in mice with intact visual cortex. The results suggest that the visual cortex plays a role in the masking response to ambient level of light. The amount of suppression of the SCN activity is dependent on the intensity of the light. When the amount of light is low, the amount of suppression is high. When the amount of light is high, the amount of suppression is low. In the present study, we investigated the effect of ablation of the visual cortex on the masking response. Mice with ablated visual cortex showed a significantly enhanced masking response to ambient level of light. This enhancement was not observed in mice with intact visual cortex. The results suggest that the visual cortex plays a role in the masking response to ambient level of light.

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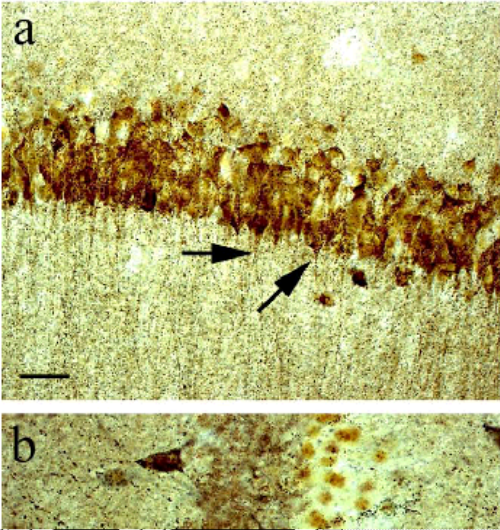
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sumably from Golgi cells (small arrow in Fig. 5b). Granule cells were usually weakly labelled, although small clusters in which labelling was heavier were occasionally seen.

4. Discussion

4.1. Zn^{2+} histochemistry in slices 'in vitro': a reliable approach to visualization of anatomically-identified CNS regions and neurons particularly sensitive to Zn^{2+} incorporation

We describe a histochemistry-based method for visualizing intracellular Zn^{2+} accumulation in neurons of the CNS. The combination of Timm's procedures for histochemical localization of Zn^{2+} , together with appropriate chemical stimulation facilitating neuronal permeation of this ion, has been previously used in neocortical cell cultures by Yin et al. [28]. The method described here is based on the use of CNS slices maintained viable 'in vitro'. Slices are exposed to adequate concentrations of extracellular Zn^{2+} , along with bath-stimulation with compounds known to facilitate or block Zn^{2+} flux across the plasma membrane through Zn^{2+} -permeable channels. Using Timm's method, Zn^{2+} is precipitated with a chelating agent. Precipitates are then visualized with light microscopy, using silver reduction procedures made reliable and easily reproducible using a commercially-available kit (IntenSEM). Thus, a classical histochemical procedure traditionally employed to detect pools of intracellular endogenous Zn^{2+} using microscopy, can be advantageously applied to investigate neuronal accumulation of exogenous Zn^{2+} through specific mem-



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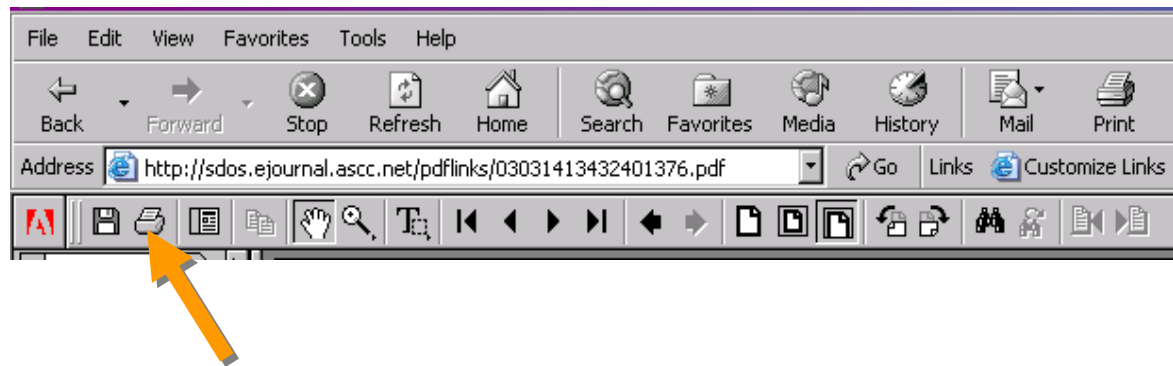
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