

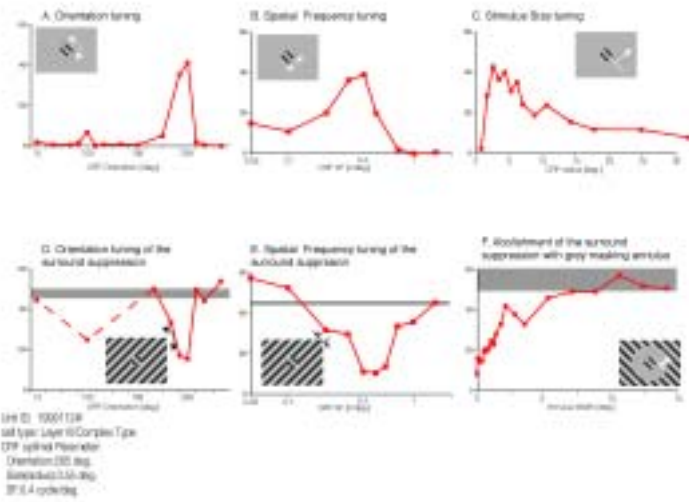
Suppressive effects of receptive field surround in V1

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Suppressive effects of receptive field surround on neuronal activity in the cat primary visual cortex.
Akasaki, T., Sato, H., Yoshimura, T., Ozeki, H. and Shimegi, S. (2002)
Neurosci. Res. 43: 207-220.

Effects of grating stimulus presented outside the classical receptive field On neuronal responses were studied in the primary visual corte of anesthetized cats. Predominant effect of the surround stimulus was the suppression of responses to the CRF stimulation. Detail properties of the surround suppression were analyzed.

Experimental Data (Downloadable)



Graphs and data of basic receptive-field properties of a complex cell.
A, Orientation tuning. B, Spatial frequency tuning. C, Stimulus size tuning. D, Orientation tuning of the surround suppression. E, Spatial frequency tuning of the surround suppression. F, Abolishment of the surround suppression with masking annulus.

Educational resources (Downloadable)



Receptive field mapping and orientation selectivity test in the cat primary visual cortex.
1) RF mapping (S1 type simple cell)



Receptive field mapping and orientation selectivity test in the cat primary visual cortex.
2) RF mapping 2 (complex cell)



Receptive field mapping and orientation selectivity test in the cat primary visual cortex.
3) Orientation tuning