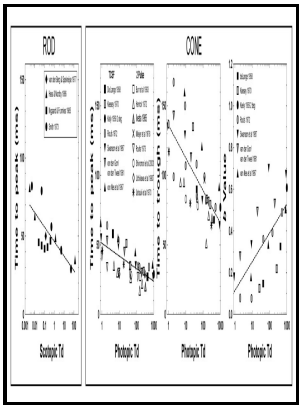
Latency determination and temporal filtering of retinal signals in photopic vision

Suomalainen Tiedeakatemia - Latency determination and temporal filtering of retinal signals in photopic vision



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Frontiers

Saccades and drifts differentially modulate neuronal activity in V1: effects of retinal image motion, position, and extraretinal influences.

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These could have an effect on the study outcome. The location of a short-latency current sink is used to estimate the upper and lower boundaries of layer IV. We also assessed the relationship between receptive field separation and output correlation.

Latency determination and temporal filtering of retinal signals in photopic vision

At the first synapse of the visual system, information flow from photoreceptors to bipolar cells is modulated by horizontal cells HCs , however, their functional contribution to retinal output and individual visual function is not fully understood. The American Academy of Ophthalmology guidelines recommend a baseline examination for patients starting these drugs to serve as a reference point; and to rule out maculopathy an annual screening after 5 years of use unless there is suspicion of toxicity or presence of unusual risk factors. Intensity of the test flash 1,200 × 1,200 µm square, 2 s was changed 3.

Versatile functional roles of horizontal cells in the retinal circuit

Furthermore, simulated saccades produced qualitatively different effects on stimulus selectivity, leading to a slight increase in I SS, rather than the pronounced decrease produced by real saccades. Funding: The Natural Science and Engineering Research Council of Canada 6362-2012, MP; 311892-2010, JFB and the Canadian Institutes of Health Research MOP-130337, JFB supported this work. Pitkow X, Meister M 2012 Decorrelation and efficient coding by retinal ganglion cells.

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