

عنوان مقاله:

Attraction of eyestalk ablated *Lymnaea acuminata* towards the different photo and chemo stimulants

محل انتشار:

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خلاصه مقاله:

In the eye of *Lymnaea acuminata* cornea, lens, microvillar layer, pigmented layer, cell layer and photoreceptors works in well organized manner and respond to photic stimulation. In the present study attraction of eye stalk ablated snail *Lymnaea acuminata* towards the different visible monochromatic light was studied. The photosensitivity of snails to different monochromatic light was wavelength as well as time dependent. In left or right eye stalk ablated snails response to monochromatic light was noted after 3 and 7 days of ablation. However, when both eyes were ablated the response to photic stimulation was observed after 9 days. This functional recovery indicates that type and number of photoreceptors as well as their regenerative capacity are not same in left and right eye of uninfected and infected snails. Sixty minute exposure of red light+ serine as chemo stimulant in bait, caused maximum attraction of snails (62%) than single exposure of chemo (36%) or red (26%) light stimulus.

کلمات کلیدی:

Lymnaea acuminata, Eye ablation, Uninfected and infected snails, Wavelength, Time, Monochromatic light

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