

基于LED诱虫灯的果蝇趋光性试验 Experiment of Light Emitting Diode Catching Insect Lamp on Phototaxis of Drosophila

刘晓英 焦学磊 郭世荣 徐志刚

南京农业大学

关键词: 果蝇 LED诱虫灯 趋光性 光质 光强

摘要: 采用固体冷光源发光二极管(LED), 设计了可以调控LED光源光密度、闪烁频率和波长的柔性诱虫灯, 并对果蝇进行了趋光性试验。结果表明, 果蝇趋性最强的光源波长为560 nm, 光强弱黄绿光诱捕效果最好。Catching insect flexible lamp with light emitting diode (LED) which can be controlled light intensity was designed, frequency and wavelength. In order to verify performance of the lamp, the experiment about phototaxis action of drosophila was performed, which shows that drosophila inclines to weak compound light of yellow and green at the 560 nm.

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