

## عنوان مقاله:

Evaluation of antibacterial properties and wound healing ointment based on curcumin and honey

محل انتشار:

بیست و یکمین کنگره ملی و نهمین کنگره بین المللی زیست شناسی ایران (سال: 1399)

تعداد صفحات اصل مقاله: 1

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## خلاصه مقاله:

Wounds from various burns can severely impair the life quality of patients. The use of natural compounds in the treatment of various diseases has long been considered. Curcumin and honey have been used as traditional woundhealing medicines in some ancient civilizations. The study aimed to investigate the synergistic healing properties of these substances as a novel burn ointment in secondary burn wounds. In this study, MICao and MIC99 use of curcumin and honey on Yoo clinical isolates of Pseudomonas aeruginosa were compared with imipenem in vitro. Their killing time and cytotoxicity were also studied using standard P. aeroginosa isolates, fibroblast stem cells, and mouse embryonic fibroblasts, respectively. Then, 10. male Wistar rats weighing between YA. and P.o. gr were divided into four experimental groups receiving a newly prepared burn ointmentcontaining honey and curcumin, ointment base, zinc oxide ointment, and no treatment as the control for "weeks on the experimentally induced burn wounds. Histopathological and histomorphological assessments were then conducted on the injured area to evaluate the efficiency of the prepared burn ointment MICoo and MIC99 against P. aeruginosa were at least SF and IYA µg mL-1 for imipenem, 1۶ and ΨY μg mL-1 for curcumin, and Λ and 15 μg mL-1 for honey. Histopathological results showed wound reepithelialization According to the results, it can be claimed that burn ointment containing honey and curcumin has a .significant effect on accelerating the healing of burn wounds

**کلمات کلیدی:** Wounds, Second-degree burns, Medicinal plants, Burn healing

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