

## عنوان مقاله:

Antibacterial Activity of Silver Nanoparticles Produced by Plantago Ovata Seed Extract Against Pseudomonas Aeruginosa

## محل انتشار:

مجله بین المللی تحقیقات پیشرفته زیست شناختی و زیست پزشکی، دوره 3، شماره 2 (سال: 1394)

تعداد صفحات اصل مقاله: 3

## نویسندگان:

Mohammad Bokaeian - *Infectious Diseases and Tropical Medicine Research Center, Zahedan University of Medical Sciences, Zahedan, Iran*

Taher Mohasseli - *Young Researcher Society, Department of Biotechnology, Faculty of Agricultural, Shahid Bahonar University of Kerman, Kerman, Iran*

Nagmeh Eskandary - *Zabol university, Zabol, Iran*

Saeide Saeidi - *Institute of Agricultural Biotechnology, University of Zabol, Zabol, Iran*

## خلاصه مقاله:

Objective: Development of resistance against many of the commonly used antibiotics is an impetus for further efforts to search for new antimicrobial agents. The aim of the study was determined as antibacterial activity of silver nanoparticles produced by Plantago ovata seed extract against Pseudomonas aeruginosa. Methods: All 30 strains of P. aeruginosa were isolated from isolates of the urinary tract infection of Hospital and the minimum inhibitory concentrations were distinguished by microdilution method. Results: The silver nanoparticles revealed Gaussian distributions with average diameter of 13 nm with some deviations. The result of plant extraction showed that the most MIC value was 100 ppm concentration, and 9 strains of pseudomonas were inhibited. Conclusion: Ag nanoparticles prepared by the effective cost reduction method described here which is greatly promising as antimicrobial agents. Applications of Ag nanoparticles based on these findings may lead to valuable discoveries in various fields such as medical devices and antimicrobial systems

## کلمات کلیدی:

Ag nanoparticle , Plant extract , Antimicrobial effects

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/443239>

