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Effect of Zinc Oxide nanoparticles on gene expression of penicillin production in *Penicilliumchrysogenum*

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Abstract:The aim of this research ,evaluated the effect of ZnO NP on genes expression of the genes that produce of penicillin antibiotic in *Penicilliumchrysogenum* and testing of activity of penicillin that produced in present of ZnONP. Results,show that ZnONP increased the gene expression of genes (pcbAB ,pcbC,pcbDE)that encoding to penicillin produce Also, indicated the activity of penicillin in present of ZnONP(12%)against of *Staphylococcusepidermidis*.
Key words:ZnONP , Gene expression,*P.chrysogenum*, (pcbAB ,pcbC ,pcbDE).

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