

### عنوان مقاله:

Investigating the Expression Levels of Glutathione Peroxidase and Glutathione Reductase Genes in Mastectomies Women

# محل انتشار:

مجله بین المللی تحقیقات پیشرفته زیست شناختی و زیست پزشکی, دوره 11, شماره 3 (سال: 1402)

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#### خلاصه مقاله:

Introduction: Important genes that may be expressed in women candidates for mastectomy due to breast cancer are important; The expression of these genes in these women can play an important role in the treatment of these patients; The aim of this study was investigating the level of expression of glutathione peroxidase and glutathione reductase genes in mastectomies women. Procedure: After cell culture, the cell suspension was planted in 95-well microplates and treated for YF hours in a COY incubator at WY°C. In order to synthesize cDNA, extracted RNA molecules were used with the help of Fermentaz Revert Aid TM kit, produced in the United States. Results: The concentration of Δοο micrograms of nanoparticles caused the death of more than ۶ο% of MCF Y cells (P< ο.οο) while there was no significant difference in all concentrations of nanoparticles on the normal HEKY9W cell line .Conclusion: The anti-tumor effects of zinc oxide nanoparticles were shown in increasing the expression of glutathione peroxidase and glutathione reductase genes in MCF-Y breast cancer cell line of mastectomy candidates. Introduction: Important genes that may be expressed in women candidates for mastectomy due to breast cancer are important; The expression of these genes in these women can play an important role in the treatment of these patients; The aim of this study was investigating the level of expression of glutathione peroxidase and glutathione reductase genes in mastectomies women. Procedure: After cell culture, the cell suspension was planted in 95-well microplates and treated for YF hours in a COY incubator at WY°C. In order to synthesize cDNA, extracted RNA molecules were used with the help of Fermentaz Revert Aid TM kit, produced in the United States. Results: The concentration of ۵۰۰ micrograms of nanoparticles caused the death of more than  $\mathfrak{F}_{\circ}$ % of MCF Y cells (P<  $\circ$ . $\circ$ )) while there was no significant difference in all concentrations of nanoparticles on the normal HEKY9W cell line .Conclusion: The anti-tumor effects of zinc oxide nanoparticles were shown in increasing the expression of glutathione peroxidase and glutathione reductase genes in .MCF-Y breast cancer cell line of mastectomy candidates

## كلمات كليدى:

glutathione peroxidase, Glutathione, Mastectomy, Breast cancer, Gene expression

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