

عنوان مقاله:

Evaluation of NUFY and GMNN Expression in Prostate Cancer: Potential Biomarkers for Prostate Cancer Screening

محل انتشار:

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خلاصه مقاله:

Background: Prostate cancer (PC) is one of the most abundant cancers among men, and In Iran, has been responsible for ۶% of all deaths from cancer in men. NUFY and GMNN genes are considered as loci of susceptibility to tumorigenesis in humans. Alterations in expression of these genes have been reported in various malignancies. The aim of our study was to test whether different NUFY and GMNN expression levels are associated with PC incidence and hence, might be considered as new molecular tools for PC screening. Methods: Biopsy samples from ۴۰ PC patients and ۴۱ healthy Iranian men were used to determine the relative gene expression. After RNA extraction and cDNA synthesis, samples were analyzed using TaqMan Quantitative Real time PCR. Patients' background information, included smoking habits and family histories of PC, were recorded. Stages and grades of their PC were classified by the TNM tumor, node, metastasis (TMN) staging system based on standard guidelines. Results: NUFY expression did not significantly differ between the groups, while GMNN expression was significantly greater in the PC specimens than in the controls. Conclusions: Regarding the significant role of GMNN in various tumor phenotypes, and its importance in PC progression, the alteration in GMNN expression in PC samples vs. controls indicate that the .genetic profiling of this cancer might be considered to personalize therapy for each patient in the future

کلمات کلیدی:

.Family history, Geminin (GMNN), Tumor staging, NUFY, Prostate cancer

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