



Study of PTEN gene expression and correlation between its expression With rs10490920 SNP in breast cancer

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Abstract:

According to statistics, from every 10 to 15 women in Iran, there is a risk of one person having breast cancer. The incidence of breast cancer in Iranian women is less than a decade in women from developed countries. The average age of diagnosis of breast cancer is 56 & 45 years old in the Western countries and Iran, respectively. Breast cancer is the second most common cause of death by cancer (1). Breast cancer is a highly heterogeneous disease that results from the interaction of inheritance and environmental risk factors. Although epidemiological evidence emphasizes the existence of special risk factors (2). Approximately 20% of all breast cancers are familial and are pathogenic depending on the gene-specific predisposing disease (3). The main cause of breast cancer is unknown and 70% of women with breast cancer were not known to be at risk. A combination of hormonal, genetic and possibly environmental factors can increase the risk of breast cancer (4). Genetic factors contribute to the development of breast cancer and relate this phenomenon to imbalance in the activity of tumor suppressor genes and growth factors. Cancer occurs when a mutation occurs in vital genes (5). In most cases, these genetic changes take place over a person's lifetime, and they only exist in certain cells of the breast (6). Somatic mutations have been found in many different genes in breast cancer cells. Gene mutations in other cells of the body rarely increase the risk of breast cancer (7). These genetic changes, which are classified as germline mutations, are inherited from a parent.



Biography:

Experienced Regulatory Affairs Specialist at Darman yab Darou as representative of multiple famous companies such as Fresenius Kabi & Ferring, Panpharma & Also an experienced pharmaceutical microbiology specialist with Well-built knowledge and demonstrated abilities in microbiological techniques such as Aseptic testing, Microbial Monitoring, Gram staining, Environmental monitoring, membrane filtration, and other related pharmaceutical methods. I have recently had the opportunity to join behestan pharmaceuticals as a microbiology consultant.

Publication of speakers:

1. Farahmand, Farhad & Shojaei, Dr. (2019). Determine optimal areas for the design of diesel, wind, biomass, photovoltaic and nonvolatile power stations for domestic use. *International Journal of Engineering and Technology*. 11. 878-887. 10.21817/ijet/2019/v11i4/191104069.

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