A Functional Genomics and Systems Biology Approach to Ovarian Cancer Differential Expression Analysis

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EDITORIAL

Ovarian cancer is one in all the fatal medicine diseases endured by most ladies round the globe. It's discerned that "Ovarian cancer is quite a woman's disease". A 2018 GLOBOCAN prediction report reveals that by the year 2040, the incidence and mortality of sex gland cancer could go up to a hundred and fifty,000 cases creating the malady a giant reason to fret concerning It normally originates from 3 common cell-types, particularly surface epithelial tissue cells, germ cells, and stromal cells. However, animal tissue sex gland cancers, developed from the cells of the outer surface of the ovary, square measure additional current and account for 85-90% of all sex gland cancers. Sadly, 70% of the patients having animal tissue sex gland cancers stay unknown till it reaches a sophisticated stage.

The foremost subtypes of animal tissue sex gland cancer square measure particularly - a) best bodily fluid sex gland cancer (HGSOC), b) inferior bodily fluid sex gland cancer (LGSOC), c) clear cell tumors, d) glycoprotein, and e) Endometrioid . The median age of ladies obtaining sex gland cancer diagnosed is sixty There square measure primarily four stages of cancer that describe to what extent the cancer is gift within the body, thus, determines the precise treatment strategy and survival period.

Treatment of sex gland cancer in its initial stages is far easier and therefore the patient survival is far longer compared to advanced stages. Stage one or just referred to as "localized" is once the cancer is found in a very restricted region of the body. Stage a pair of is termed as "regional" as cancer gets unfold to encompassing regions from its supply, whereas advanced stages (stages three & four) square measure distant and unknown and square measure a condition from its supply, whereas advanced stages (stages three & 4) square measure additional current and account for 85-90% of all sex gland cancers. Sadly, 70% of the patients having animal tissue sex gland cancers stay unknown till it reaches a sophisticated stage.

Given a group of genes that square measure either up-regulated or down-regulated underneath some conditions, GO enrichment analysis can answer that GO terms square measure overrepresented or underrepresented supported pre-defined and pre-stored annotations Reconstruction of sequence restrictive networks (GRNs) is very important to more perform topological analysis, network module identification, and extremely powerful sequence identification (seed genes) that may be more used for drug target identification. For the reconstruction of GRNs, we tend to used Gene MANIA.

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