

Genes Et Cancers

[#cancer genetics](#) [#gene mutations](#) [#hereditary cancer risk](#) [#oncogenes](#) [#tumor suppressor genes](#)

Genes play a critical role in the development and progression of cancer. Changes, or mutations, within our DNA can lead to uncontrolled cell growth, forming tumors. Understanding these specific genetic alterations is crucial for diagnosing, treating, and even preventing various types of cancer, paving the way for targeted therapies and personalized medicine approaches.

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genes that have novel properties. In either case, expression of these genes promotes the malignant phenotype of cancer cells. Tumor suppressor genes are... 114 KB (13,895 words) - 03:26, 11 March 2024

Colorectal cancer diagnosed before age 50 Presence of synchronous or metachronous colorectal or other Lynch syndrome associated cancers (e.g. cancers of endometrium... 47 KB (4,902 words) - 21:19, 19 February 2024

more genes predispose the affected individuals to the development of cancer and may also cause early onset of these cancers. Hereditary cancer syndromes... 51 KB (5,554 words) - 23:09, 8 November 2023

abnormally. The loss of function for these genes may be even more significant in the development of human cancers, compared to the activation of oncogenes... 30 KB (3,406 words) - 01:46, 9 March 2024
cell's transformation to cancer. The disturbance of epigenetic processes in cancers, can lead to a loss of expression of genes that occurs about 10 times... 111 KB (12,528 words) - 22:05, 6 January 2024
more than 50% of colon cancers. While epigenetic alterations are found in cancers, the epigenetic alterations in DNA repair genes, causing reduced expression... 186 KB (20,001 words) - 09:58, 19 March 2024

either of the BRCA1 and BRCA2 genes, which are tumour suppressor genes. Hundreds of different types of mutations in these genes have been identified, some... 72 KB (8,965 words) - 20:29, 9 February 2024

triple-negative breast cancer (15%–25% of breast cancers), HER2+ (15%–30% of breast cancers), ER+/PR+ (about 70% of breast cancers), and Invasive lobular... 122 KB (14,394 words) - 02:01, 10 February 2024

minority of cancers are due to inherited genetic mutations. Most cancers are related to environmental, lifestyle, or behavioral exposures. Cancer is generally... 60 KB (6,775 words) - 12:15, 16 January 2024
cancers. On the other hand, the promoters of two genes, PARP1 and FEN1, were hypomethylated and these genes were over-expressed in numerous cancers.... 51 KB (5,483 words) - 08:24, 22 February 2024

alterations in cancers that change gene expression levels include direct hypermethylation or hypomethylation of CpG islands of protein-encoding genes and alterations... 133 KB (14,520 words) - 08:49, 12 March 2024

methylation maintenance machinery. In cancer, a number of mutational changes are found in protein coding genes. Colorectal cancers typically have 3 to 6 driver... 30 KB (3,792 words) - 07:03, 18 October 2023

breast cancers and 40% of "triple negative" breast cancers. Activation of androgen receptors appears to suppress breast cancer growth in ER+ cancer while... 92 KB (9,503 words) - 14:33, 3 December 2023

cancers. Triple-negative breast cancers comprise a very heterogeneous group of cancers. TNBC is the most challenging breast cancer type to treat. Hormone therapy... 28 KB (3,411 words) - 04:07, 14 March 2024

12% live for five years. For cancers diagnosed early, the five-year survival rate rises to about 20%. Neuroendocrine cancers have better outcomes; at five years... 122 KB (12,763 words) - 10:37, 10 March 2024

An oncogene is a gene that has the potential to cause cancer. In tumor cells, these genes are often mutated, or expressed at high levels. Most normal cells... 28 KB (3,182 words) - 10:30, 19 March 2024

Cancer is a category of disease characterized by uncontrolled cell growth and proliferation. For cancer to develop, genes regulating cell growth and differentiation... 18 KB (2,260 words) - 12:46, 28 December 2023

certain cancers. As indicated in the Wikipedia articles on RAD51 and BRCA2, such cancers ordinarily have epigenetic deficiencies in other DNA repair genes. These... 128 KB (15,692 words) - 22:53, 6 March 2024

Stomach cancer, also known as gastric cancer, is a cancer that develops from the lining of the stomach. Most cases of stomach cancers are gastric carcinomas... 79 KB (8,151 words) - 10:25, 19 March 2024

regulates the prostate cancer. Most fusion genes are found from hematological cancers, sarcomas, and prostate cancer. BCAM-AKT2 is a fusion gene that is specific... 17 KB (1,918 words) - 11:57, 17 March 2024