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Genomic Instability

National Cancer Institute

Source

National Cancer Institute. *Genomic Instability*. NCI Thesaurus. Code C48189.

A biological process consisting of chromosomal rearrangements and duplications. These phenotypes are often seen in the karyotype of cancer cells, where there is an imbalance between the mechanisms of cell-cycle control and mutation rates within aberrant genes. Ataxia telangiectasia is a disease that is resultant from mutations in the ATM gene, which is a cell cycle checkpoint gene. Nijmegen breakage syndrome is also a disease characterized by chromosomal and genomic instability.