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Comparative Genomic Hybridization

National Cancer Institute

Source

National Cancer Institute. *Comparative Genomic Hybridization*. NCI Thesaurus. Code C18084.

Comparative genomic hybridization (CGH) is a technique that allows the detection of losses and gains in DNA copy number across the entire genome without prior knowledge of specific chromosomal abnormalities. Comparative genomic hybridization utilizes the hybridization of differentially labeled tumor and reference DNA to generate a map of DNA copy number changes in tumor genomes. Comparative genomic hybridization is an ideal tool for analyzing chromosomal imbalances in archived tumor material and for examining possible correlations between these findings and tumor phenotypes. (from Ried et al. J Mol Med 1997 75:801-14)