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DNA Interstrand Cross-Link Repair

National Cancer Institute

Source

National Cancer Institute. *DNA Interstrand Cross-Link Repair*. NCI Thesaurus. Code C20225.

DNA interstrand cross-links (ICLs) are very toxic to dividing cells, because they induce mutations, chromosomal rearrangements and cell death. A number of multi-step DNA repair pathways including nucleotide excision repair, homologous recombination and post-replication/translesion repair all impinge on their repair.