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Base Excision Repair

National Cancer Institute

Source

National Cancer Institute. *Base Excision Repair*. NCI Thesaurus. Code C20212.

Initiation of DNA base excision repair (BER) involves a DNA glycosylase that binds the altered deoxynucleoside in an extrahelical position and catalyzes cleavage of the base-sugar bond. Subsequently, an AP endonuclease or AP lyase activity incises the abasic site, followed by short-patch gap-filling, excision of the base-free sugar-phosphate residue, and ligation.