MISMATCH REPAIR Prokaryotic type Eukaryotic type Mispair DNA Mispair DNA CH_3 3' Template strand Daughter strand Mismatch recognition Mismatch recognition Major components in cells MutS MutLa PMS2 MLH1 RFC MutL MutSα MSH2 PCNA MutS MutLa MLH1 PMS2 MutL MutSβ MSH2 Incision MLH1/MLH3 | MLH1 | MLH3 Colorectal cancer MutH MutSβ MISH2 MISH3 **PCNA** CH_3 MutL MutS MutL homolog Excision homolog Helicase II Excision Exonucleases UVRD ExoVII ExoI ExoX RecJ Helicase II Exonuclease Exonuclease DNA re-synthesis DNA re-synthesis DpoIII Polδ Ligation Ligation DNApolymerase III DNApolymerase δ holoenzýme Lig Dam CH₃ (Human) (Escherichia coli) 03430 1/20/15

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