SILENCING, HETEROCHROMATIN AND DNA DOUBLE STRAND BREAK REPAIR

De Gatchel

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Ebook Silencing Heterochromatin And Dna Double Strand Break Repair

In this study, we examined the role of double-strand-break repair proteins in gene silencing and nuclear organization. We find that the ATM kinase Tel1 and the.

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Cell 16— Homologous recombination progression is halted inside the heterochromatin domain by SUMOylation to prevent aberrant recombination 4. Mechanisms that regulate localization of a DNA double-strand break to the nuclear periphery. Intheabsenceof53BP1,thereisextensiveresectionandthisleadstothere We will also discuss the emerging role of chromatin composition and regulation in heterochromatin repair progression. DSB repair in the context of heterochromatin The fact that chromatin is not a homogeneous structure raises the question whether breaks in heterochromatin are recognized and repaired with similar efficiency and using the same repair machinery as euchromatic breaks Figure 1. Changes in H3K9 Heterochromatin and DNA Double Strand Break Repair levels and distributions are seen in aging Chen et al. Borden1BasvanSteensel4RanjitS.Sinclair DA, Oberdoerffer P. Regardless, we conclude that the temporal and spatial relocation dynamics for I-SceI-induced single breaks in live tissues recapitulated our previous observations for IR-induced foci in cultured Drosophila cells Chiolo et al.