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Abstract : The premature chromosome condensation (PCC) assay has been proposed as a useful and rapid end point for biological dosimetry following accidental high-dose radiation overexposures. A major benefit of the PCC assay is that it does not require cells to divide for evaluation of cytogenetic damage.

Application of the Premature Chromosome Condensation Assay

Premature Chromosome Condensation: Application in Basic, Clinical, and Mutation Research emerged from a workshop supported by the International Union against Cancer that reviewed the status of research on premature chromosome condensation and explored future possibilities, not least in relation to cancer. The workshop was held at the Institut für Humangenetik, Freie Universität Berlin, on September 6, 1980.

Premature Chromosome Condensation - 1st Edition

Chemical induction of premature chromosome condensation (PCC) was investigated and optimized to be able to analyze the chromosomal constitution of cancer cells independent of mitosis and with minimal culture artifacts.

(PDF) Premature chromosome condensation revisited: A novel

Get PDF (943K) Get PDF (943K) Abstract The application of the phenomenon of premature chromosome condensation for cell cycle analysis in HeLa and CHO cells has been examined.

Premature chromosome condensation and cell cycle analysis

Premature Chromosome Condensation (PCC) Assay for Dose Assessment in Mass Casualty Accidents Carita Lindholm, a,1 Daniela Stricklin, b Alicja Jaworska, c Armi Koivistoinen, a Wendla Paile, a Eva Arvidsson, b

Premature Chromosome Condensation (PCC) Assay for Dose

However, the mechanisms inducing premature chromosome condensation (PCC) through overriding of the S-M checkpoint are relatively poorly recognized (Nghiem et al. 2001; Rybaczek 2011 and ref. therein; Rybaczek and Kowalewicz-Kulbat 2011).

(PDF) Eidetic Analysis of the Premature Chromosome

like genes on the 5B chromosome results in increased transcription from the cdk-like genes on the 5A and 5D chromosomes (Al-Kaff et al. 2008), suggesting that cdk activity is increased rather than decreased by the absence of Ph1. Increased cdk activity can be associated with premature chromosome condensation (Furuno et al. 1999).

Inducing chromosome pairing through premature condensation

8 subsequent premature chromosome condensation (PCC)[5], likely due to the high 9 concentrations of maturation promoting factor (MPF) present in the oocyte[6, 7]. 10 The degree of PCC varies, depending upon the MPF activity and the duration that a

Premature Chromosome Condensation Is Not Essential for

chromatin and mitotic chromosomes is chromosome pulverization, which has been inappropriately linked to premature chromosome condensation (PCC) and more recently confused with chromosome fragmentation (C-Frag), a major form of

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