

Z607 DNA-Protein Crosslink induced by mutagens on Adaptive and Cross-adaptive Response

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In the present study, we elucidate the DNA-protein crosslink to ethyl methanesulfonate (EMS) or ultraviolet radiation-C (UVC) on adaptive and cross-adaptive response in Chinese hamster ovary cells. To investigate induction of DNA-protein crosslink to EMS or UVC, we used K⁺-SDS (potassium ion-sodium dodecyl sulfate) precipitation method. The DNA-protein crosslink in the cells is increased according to dose increment of EMS or UVC. And low dose of EMS increased the DNA-protein crosslink in the cells induced by subsequent treatment with high dose of EMS.