REVIEW OF LITERATURE

For the present study a survey of the literature on the effects of radiation on male germ cells, was undertaken. Various aspects of germ cells morphology and effects of radiation on them have been studied by different researchers. The important works are as follows:


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Muller (1927) In Drosophila showed that X-ray were able to induced mutations indistinguishable from those that appeared spontaneously. The notable feature was that X-ray gave an induced mutation rate many times greater than the natural one.

Muller, H.J. and T.S. Painter (1929) The Cytological Expression of Changes in Gene Alignment Produced by X-rays in Drosophila.

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Altenburg, E. (1930), The Effect of Ultraviolet Radiation on Mutation.

Helwig, E.R. (1933), The effect of X-rays upon the chromosomes of Cicotettix verruculatus (Orthoptera).

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Lea, D.E. (1946), Actions of radiations on living cell.


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Liining, K. G., (1952), X-ray included dominant lethals in different stages of spermatogenesis in Drosophila.

Bushland and D. Hopkins, (1953), Sterilization of Screw-Worm flies with X-rays and Gamma-rays.

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Gaulden, M.E., M. Nix, and J. Moshman (1953), Effect of Oxygen Concentration on X-ray Induced Mitotic Inhibition in Living Chortophage Neuroblasts.


Kirby-Smith, J.S. and D.S. Daniels (1953), The Relative Effects of X-rays, Gamma Rays and Beta Rays on Chromosomal Breakage in Tradescantia.


Auerbach, C., (1956), Sensitivity of the *Drosophila testis* to the mutagenic Action of X-rays.

Bloom, W., and M.A. Bloom, (1954), Histological changes after irradiation. In Hollaender.


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Sharp, J.L. (1995), Mortality of sweet potato weevil (Coleoptera : Apionidae) stages exposed to gamma irradiation.


Mishra H.P.(a) and P.Bhatia(1998), Gamma Radiation susceptibility or strains of Tribolium castaneum (Herbst) resistance and susceptible to fenvvalerate.


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