

## Cytological Effect Of Ethyl Methane Sulphonate And Sodium

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[CYTOLOGICAL EFFECT OF ETHYL METHANE SULPHONATE AND SODIUM AZIDE IN LINUM USITATISSIMUM L.](#) [Ambreen Akhtar; MYK Ansari; Alka and Hisamuddin](#) [Department of Botany, Aligarh Muslim University, Aligarh, 202002, U.P. India](#) [Ambreen.qazi08@gmail.com](#) [ABSTRACT : The present investigation provides a comparative account of cytological and](#)

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[Hence, present study has been done to assess the mutagenic impact of Ethyl Methane Sulphonate \(EMS\) on cytological, morphological and biochemical constituents of Coriandrum sativum L. The results revealed that the higher concentration and treatment duration are toxic in nature whereas lower concentrations of mutagen were quite beneficial in inducing positive characteristics with less toxicity.](#)

[Ethyl methane sulphonate induced changes in cyto ...](#)

[The results obtained in the present study showed that 10 KR, 20 KR and 30 KR doses of Gamma rays and 0.1%, 0.2% and 0.3% concentration of Ethyl methane sulphonate induced various types of nuclear and chromosomal abnormalities such as stickiness of chromosomes, multivalent formation, fragment of chromosomes, precocious movement of chromosomes, unorientation of chromosomes, univalent, lagging of chromosomes, bridges formation, unequal separation of chromosomes and spindle abnormalities.](#)

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[Cytological Effect Of Ethyl Methane Sulphonate And Sodium](#) [Hence, present study has been done to assess the mutagenic impact of Ethyl Methane Sulphonate \(EMS\) on cytological, morphological and biochemical constituents of Coriandrum sativum L. The results revealed that the higher concentration and treatment duration are toxic in nature](#)

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[Cytological Effect Of Ethyl Methane Sulphonate And Sodium](#)

[Cytological Effect Of Ethyl Methane Sulphonate And Sodium](#) [animal and plant cells and the current view of its cytological and mutational action is that it disrupts cytosine-guanine base pair with specific action on cytosine \(FREESE 1963 \).](#)

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The effect of gamma rays, ethyl methane sulphonate, and their three combinations on various cytological parameters in M1 generation was studied in two soybean cultivars. Cytological effects of different mutagens in soybean ... cytological effect of ethyl methane sulphonate and sodium will meet the expense of you more than people admire.

### Cytological Effect Of Ethyl Methane Sulphonate And Sodium

Three dosages each of thermal neutrons (TN) and ethyl methane sulfonate (EMS) were applied to 10 pearl millet inbreds evaluated in replicated plots in the field. Both mutagens delayed seedling emergence and days to maturity, and reduced seedling height, plant height, leaves per culm, and selfed and sibbed seed set.

### Morphological and Cytological Response of Pear Millet ...

Ethyl Methane Sulphonate (EMS) Induced Mutagenesis in Malaysian Rice (cv. MR219) for Lethal Dose Determination 1662 . organisms, despite the approximately 1 billion years of divergence between them. For example, recessive lethal mutations are estimated to occur at similar rates in both cases, with EMS doses causing acceptable levels of ste-

### Ethyl Methane Sulphonate (EMS) Induced Mutagenesis in ...

On the other hand, in PK-1042 the increase in ethyl methane sulphonate dose increased sterility percentage, while no definite trend was noticed in gamma rays and combined treatments. The effect of gamma rays, ethyl methane sulphonate, and their three combinations on various cytological parameters in M1 generation was studied in two soybean cultivars.

### Cytological effects of different mutagens in soybean ...

A comparative account of cytological and developmental effects of EMS (ethyl methane sulphonate) and SA (sodium azide) on meiotic parameters were investigated. These mutagens are being used to improve quality traits and yield producing resistance in susceptible crops against harmful pathogens. The study for generation M1 on

### Journal of Chemical and Pharmaceutical Research, 2017, 9 ...

Cytogenetic studies have shown chromosome breakage in some induced barley seed by high dose of 700 and 1200 Gy. On the basis on growth traits analysis, sodium azide 0.5, 1 and 5 mM, ethyl methane sulfonate 0.1% and gamma ray 200 and 320 Gy are appropriate mutagens.

### The effects of chemical and physical mutagens on ...

The cytological effects of the insecticide Phosdrin (mevinphos) and the herbicide Bladex on root tips of Tradescantia and Vicia faba were observed and compared with those of the chemical mutagen ethyl methane sulfonate (EMS). In addition, plants of Vicia faba were sprayed prior to floral initiation and pollen mother cells examined for chromosomal abnormalities.

### CYTOLOGICAL EFFECTS OF THE PESTICIDES PHOSDRIN AND BLADEX ...

Ethyl methane sulfonate (EMS) was used as a positive control. The cytological abnormalities induced in root-tip cells by both 2,4-D and amitrole included chromosome bridges, fragments, lagging chromosomes, and chromatin bodies; 2,4-D also induced chromosome contraction, and C-mitoses.

### CYTOGENETIC EFFECTS OF 2,4-D AND AMITROLE IN RELATION TO ...

The effect of gamma rays, ethyl methane sulphonate, and their three combinations on various cytological parameters in M1 generation was studied in two soybean cultivars, Pusa-16 and PK-1042.

### Cytological effects of different mutagens in soybean ...

Mutagenic effect of gamma rays and ethyl methane sulphonate (EMS) on mitotic indices and structural chromosomal aberrations were studied using three different doses/concentrations of mutagens along with ... Degree of cytological aberration either in mitosis and meiosis is regarded as one

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