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Of Ethyl Methane Sulphonate  
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## **Cytological Effect Of Ethyl Methane**

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

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: The present investigation provides a comparative account of cytological and

## **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

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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.

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## **Ethyl methane sulphonate induced changes in cyto ...**

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



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combinations on various cytological parameters in M1 generation was studied in two soyb

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

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## **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 ). It is also said to react with thymine, adenine and guanine but to a much less extent. It

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opens the resonance structure of  
cytosine

## **Effect of the Mutagens**

### **Hydroxylamine, Ethyl Methane ...**

Mutagenic effects of Ethyl Methane  
Sulphonate on the pollen grains of  
Urginea indica Kunth cytotype I 1. @  
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International Research Mutagenic effects  
of Ethyl Methane Sulphonate on the  
pollen grains of *Urginea indica*

ABSTRACT *Urginea indica* Kunth  
commonly called as Jangli Pyaz or jangli  
dungli is a medicinal plant having very  
high ...

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## **Mutagenic effects of Ethyl Methane Sulphonate on the ...**

Cytological effect of single and combination treatments of gamma rays, EMS (ethyl methane sulfonate) and NMU (nitrosomethyl urea) was studied in two cultivars of *Lycopersicon esculentum* Mill.,...

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## **(PDF) Cytological effects of single and combination ...**

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



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to occur at similar rates in both cases, with EMS doses causing acceptable levels of ste-

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

The effects of chemical and physical mutagens on morphological and cytological characters of barley ... 1 and

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5 mM, ethyl methane sulfanate 0.1%  
and gamma ray 200 and 320 Gy are  
appropriate ...

## **(PDF) The effects of chemical and physical mutagens on ...**

A comparative account of cytological  
and developmental effects of EMS (ethyl  
methane sulphonate) and SA (sodium

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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

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Pharmaceutical Research, 2017, 9**

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Caffeine induced morpho-cytological variability in Fenugreek, *Trigonella foenum-graecum* L. *Cytologia* 62(4): 343-349. Anis, M. and N. Sharma. 1997. Induced variation in chiasma frequency in *Capsicum annum* L. in response to chemical mutagens. *Thailand J. Agri. Sci.* 30: 43-52. Ansari M.Y.K and S.A.

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Siddiqui. 1995. Mutagenic effects of ethyl methane

## **COMPLETE THESIS Final - Shodhganga**

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

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analysis, sodium azide 0.5, 1 and 5 mM, ethyl methane sulfanate 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

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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.

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

...

concentrations and ethyl methane sulfonate (EMS) of 10mM, 20mM, 30mM, 40mM and 50mM concentrations. The cytological effect of mutagens in the immediate generation was studied. A number of meiotic abnormalities were



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observed. They included stickiness of

## **Effect of NMU and EMS on Chromosomal Behaviour of ...**

To effect of chemical mutagens depends on the permeability of seed coat and nature of the mutagens. Chemical mutagens provide a good scope for selection, as a tool for alteration in the

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genotype to enhance the variability of characters. The present report deals with the cytological effects of EMS and SA at a range of concentrations in Linum

**April-2012 Revised: 28th April-2012**  
**Accepted: 02 May-2012 ...**

The chapter gives a comparative observation of ethyl methane

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sulphonate (EMS), methyl methane sulphonate (MMS) and gamma irradiation on cytological and developmental parameters, i.e. meiotic features, pollen sterility, seed germination and seedling survival in *Vicia faba* L.

## **Mutagenic Effects on Meiosis in**

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Sreekrishna V, Cytological abnormalities in Amranthus paniculatus treated with ethyl methane sulphonate J Cytol Gnet, 2006, 7 (NS), 101-104. Soni NK Oswal P, Yadav SK, Effect of solar eclipse on cell division in the meristametic root cells of Allium sativum. Cytologia, 1982, 47,353-358.

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## **Assessment of Mito-inhibitory and Genotoxic effects of two ...**

An attempt has been made to study the effect of Ethyl Methane Sulphonate on the filaments of green alga, *Cladophora crispata* with varying percentage of concentrations ranging from 0.0001, 0.1 for duration of 1, 2 and 4 hours for a

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period of three weeks. Control samples were also maintained.

### **Mutagenic studies in a filamentous alga, employing a ...**

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