

Cytological Effect Of Ethyl Methane Sulphonate And Sodium

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Cytological Effect Of Ethyl Methane

CYTOLOGICAL EFFECT OF ETHYL METHANE SULPHONATE AND ...

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, UP India Ambreenqazi08@gmail.com ABSTRACT : The present investigation provides a comparative account of cytological and developmental effects on EMS (Ethyl ...

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cytological effect of ethyl methane sulphonate and sodium Cytological Effect Of Ethyl Methane Sulphonate And Sodium Cytological Effect Of Ethyl Methane Sulphonate And Sodium *FREE* cytological effect of ethyl methane sulphonate and sodium developmental effects on EMS (Ethyl Methane Sulphonate) and SA (Sodium Azide) on meiotic features

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Effect of the Mutagens Hydroxylamine, Ethyl Methane ...

EFFECT OF THE MUTAGENS HYDROXYLAMINE, ETHYL METHANE SULPHONATE AND GAMMA RAYS SEPARATELY AND IN COMBINATION ON MEIOTIC CHROMOSOMES D SRINIVASAOHAR and T K MOHANDAS Division of Genetics, Indian Agricultural Research Institute, New Delhi, India
Received: u•• March 1969

The Effect of Ethyl Methane Sulphonate and Diethyl ...

The effect of ethyl methane sulphonate and diethyl sulphate on chilli (*Capsicum annum i*) in M1 generation b panjai Gandhi, A pri Devi*, L Mullainathan Division of Cytogenetics and Plant Breeding, Department of Botany, Annamalai University, Annamalai Nagar - 608 002, Tamilnadu, India *E-mail address: asriidevii@gmailcom ABSTRACT

MORPHOLOGICAL VARIATIONS INDUCED BY ETHYL METHANE ...

Clusterbean [*Cyamopsis tetragonoloba* (L) Taub], one of the most important annual, self-pollinated leguminous crops, is a robust annual herb with long tap roots and well developed lateral roots (Deepika and Dhingra, 2014) Guar gum produced from the seeds of guar has a high commercial value By the use of mutagenesis, the

Impact of Mutagenesis on Cytological Behaviour in Chickpea ...

010%, and 015% of Ethyl Methane Sulphonate The healthy and actively growing root-tip of each and untreated control of the germinated seeds on reaching the length about 1 to 15 cm in the petriplates lined with the 2-3 layer of moist filter paper The root-tips were excised during the time interval of 10 am to 1130 am For the mitotic studies

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

cal mutagens such as ethyl methane sulphonate (EMS), diepoxybutane-derived (DEB), sodium azide and irradiation (Gamma rays, X-rays and fast neutrons) have been widely used to induce a large number of functional variations in rice and others crops Among chemical mutagens, the alkylating agent, ethyl methane sulfonate (EMS) is the most com-

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

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 observed They included stickiness of

Cytological Abnormalities in Trigonella induced by EMS ...

The effect of various doses of radiomimetic agents EMS (Ethyl Methane Sulphonate), MMS (Methyl Methane Sulphonate) and MES (Methyl Ethane Sulphonate) on Meiosis Pollen Mother Cells in *Trigonella foenum-graecum* L (desi methi) in M1 generation Radiomimetic agents Doses (%) Pollen Mother Cells Number of cells studied

COMPLETE THESIS Final - Shodhganga

Ahmad S and R Yasmin 1992 Effect of methyl parathian and trimilox on the mitosis of *Allium cepa* Cytologia 57(1): 155-160 Ali M and SCS Tsou 1997 Combating micronutrient deficiencies through vegetables - a neglected food frontier in Asia Food Policy 22: 17-38 Alka, MYK Ansari and D Shahab 2007 Effect of ethyl methane

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Received: 24th April-2012 Revised: 28th April-2012 Accepted: 02nd May-2012 Research Article GENOTOXIC EFFECT OF ETHYLMETHANE

SULPHONATE AND SODIUM AZIDE IN LINUM USITATISSIMUM L Alka*, MYK Ansari, Towseef Mohsin Bhat, Sana Choudhary and Rumana Aslam

The Mutagenic Effect of Ethyl Methane Sulphonate Alone and ...

The effect of ethyl methane sulphonate alone and in combination with copper on chromosomal aberrations and seedling growth in wheat was studied. It was found that 15% concentration of ethyl methane sulphonate was capable of inducing chromosome breaks in the root tips of wheat seedlings to the extent of 20%. This mutagenic activity of the chemical

Effect of Zarda (Processed Tobacco Leaf) Extract

1984 Effect of Zarda Extract on the Chromosomes of *Allium cepa* Linn 813 effect of myleran on barley and *Vicia* chromosomes was recorded by Moutschen Dahmen (1958). The preferential effect of ethyl methane sulphonate was first studied by Swaminathan et al (1962) on barley and wheat chromosomes ...

Studies on the effects of mutagens on cytotoxicity ...

The cytological studies provide more information regarding the response of a genotype to the particular mutagen and also provide chances to select desirable characters. The seeds of pigeon pea were subjected to different doses and concentrations of gamma rays and ethyl methane sulphonate (EMS). The effects of different

Mutagenic effectiveness and efficiency of gamma rays and ...

Mutagenic effectiveness and efficiency of gamma rays and ethyl methane sulphonate in *Catharanthus roseus* R by inducing cytological, genetical, biochemical, physiological and morphogenetic changes in cells and tissue (Gunckel & Sparrow 1961). Khatri et al, (2005) reported that gamma rays and EMS could be fruitfully applied to develop new varieties with high yield and other improved organic

REVIEW OF LITERATURE

(1959), Ethyl alcohol, Ethyl methane sulphonate and Myleran by Reiger and Michaelis (1960 a, b) and N-nitroso-N-methyl-methane by Kd-dtnan (1960). Amato (1949) studied the cytological effects of many of the insecticides and found their relative effects on the chromosomal structure and behaviour in *Allium cepa* and *Vicia faba*. From their work

The effect of ethyl methane sulphonate and diethyl ...

The effect of ethyl methane sulphonate and diethyl sulphate on chilli (*Capsicum annum* L) in M1 generation. E Sanjai Gandhi, A Sri Devi*, L Mullainathan. Division of Cytogenetics and Plant Breeding, Department of Botany, Annamalai University, Annamalai Nagar - 608 002, Tamilnadu, India *E-mail address: asriidevii@gmail.com ABSTRACT

Mutagenic efficiency of gamma-rays, ethyl methane ...

cytological analysis (viz laggard, bridges, fragments and micronuclei). The plant survival and pollen fertility were recorded from field grown plants to estimate mutagenic effect in M1 generation. The mutagenic efficiency was determined as per the formula suggested by Konzak et al (1965). All the M1 plants were harvested individually and