

Cytological Effect Of Ethyl Methane Sulphonate And Sodium

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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 : 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 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 ...

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 soyb

Cytological effects of different mutagens in soybean ...

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Mutagenic effects of Ethyl Methane Sulphonate on the pollen grains of Urginea indica Kunth cytotype I 1. @ IJTSRD | Available Online @ www.ijtsrd.com ISSN No: 2456 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 ...

Mutagenic effects of Ethyl Methane Sulphonate on the ...

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 sulfanate 0.1% and gamma ray 200 and 320 Gy are appropriate mutagens.

The effects of chemical and physical mutagens on ...

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 ...

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

Morphological and Cytological Response of Pear Millet, Pennisetum typhoides to Thermal Neutron and Ethyl Methane Sulfonate Seed Treatments 1. Glenn W. Burton. Search for more papers by this author. Jerrel Powell.

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 ...

Castañon A, Tristram A, Meshar D, Powell N, Beer H, Ashman S, Rieck G, Fielder H, Fiander A, Sasieni P. Effect of diindolylmethane supplementation on low-grade cervical cytological abnormalities ...

Diindolylmethane: Uses, Side Effects, Interactions, Dosage ...

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 ...

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.

(PDF) Ethyl Methane Sulphonate Induced Changes in Cyto ...

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 ...

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

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

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.

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

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. Siddiqui. 1995. Mutagenic effects of ethyl methane

COMPLETE THESIS Final - Shodhganga

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 ...

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 period of three weeks. Control samples were also maintained.

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

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