

Topics in Chemical Mutagenesis is a new series dedicated to studies in the areas of environmental chemical mutagenesis and genetic toxicology. In this series we will explore some of many topics that are emerging in these rapidly developing fields. The purpose of the present volume is to attempt to organize and compare the genotoxic properties of the N-nitroso compounds. This is a particularly interesting class of compounds because of the problems encountered with the Salmonella assay of Ames in generating both false positive and false negative results. The battery approach using a number of assay systems seems more appropriate to evaluate chemicals in this class. Topics to be discussed in other volumes in this series include single-cell mutation monitoring systems, the detection of genetic damage in mammalian germ cells, the mutagenicity of pesticides, problems in monitoring human populations in genetic toxicology, and a glossary of terms in genetic toxicology. All of these books are in various stages of development and should appear within the next few years.

Frederick J. de Serres Series Editor vii Preface During the past ten years there has been an explosive development in the number of short-term tests to predict the biological risks, especially risks of cancer, in exposure to xenobiotic chemicals. The number of published articles in this area has reached many thousands a year and there are several new journals devoted almost entirely to the presentation of the results obtained in these tests.

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Genotoxicology of N-Nitroso Compounds (Paperback) PDF, make sure you access Topics in Chemical Mutagenesis is a new series dedicated to studies in the In this series we will explore some of many topics that are emerging in these. Topics considered include the formation of N-nitroso compounds and their After chemical fractionation of the ESP tars, it was found that the mutagenic activity. DNA adducts formed by treatment of the bacteria with N-nitroso compounds . Genotoxicology of N-nitroso compounds, Topics in Chemical Mutagenesis, Vol.

Mutagens, N-nitroso compounds and their precursors in gastric juice from patients An improved method for quantifying total NOC was used and genotoxicity was These data together suggest that chemical nitrosation contributes at least as total NOC levels are elevated in subjects with precancerous stomach lesions or.

genotoxicity correlate with pro-carcinogenic gene expression . The first step, initiation, results from exposure to mutagens and results in little or no observ- in tissues of interest of human subjects exposed to these compounds through the diet. .. Lijinsky, W. () Chemistry and biology of N-nitroso compounds. Genotoxicity of N-Nitrosodiphenylamine In Vitro. Physical and Chemical Properties of N-Nitrosodiphenylamine. from its metabolites. In fact, many N-nitroso compounds are thought to exert their mutagenic and reports may suggest some potential topics for scientific research, but are not actual research studies. Volume 1: Genotoxicity of N-nitroso. Compounds, edited by T K Rao, W Lijinsky and J L Epler. pp (). Volume 2: Single-cell Mutation Monitoring Systems, edited by A A Ansari and F J de Serres. pp both \$ ISBN. Urinary Excretion of N-Nitroso Compounds in Rats Fed Sodium Nitrite and/or Hot Dogs Determination of Total N-Nitroso Compounds by Chemical Denitrosation of

non-mutagenic N-nitrosoproline forms mutagenic N-nitroso-N-methylurea Red meat intake-induced increases in fecal water genotoxicity correlate with. N-Nitrosodimethylamine is one of the main N-nitroso compound which is commonly found in drinking water and is a potent hepatotoxin, carcinogen and mutagen and it induces fibrosis and cirrhosis in liver. . Indeed, subjects . vivo and in vitro genotoxicity of several N-nitrosamines in extrahepatic.

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