Chemical mutagenesis

- By chemical mutagens
- Induce chemical modifications in one base or another
- Result: faulting base pairing
- Diverse chemical mutagens:
- Alkylating agents
- Acridines (function as intercalating agent)

Chemical Mutagenesis

Scott Frickel

Chemical Mutagenesis:

Comparative Chemical Mutagenesis Frederick De Serres,2013-03-12 Frederick J de Serres Ph D Office of the Associate Director for Genetics National Institute of Environmental Health Sciences Research Triangle Park North Carolina U S A 27709 The Workshop on Comparative Chemical Mutagenesis was orga nized to begin the process of problem identification and resolution concerning our needs to evaluate the data on test chemicals arising from assays for mutagenic activity on laboratory organisms In the past data on chemical mutagens has been generated and published in the scientific literature on a more or less random basis Individual chemicals enjoy a brief period of popularity that leads to a burst of publications in the same or sometimes related assay systems The incompleteness of the data base in many of these cases makes comparative mutagenesis difficult or impossible In our attempts to compare the genetic effects of a given chemical over a wide range of assay systems we are often interested in making quantitative as well as qualitative compari sons To restate the first comparison is the chemical under ques tion a weak moderate or potent mutagen over a wide range of assay systems or alternatively does the level of response vary markedly To make the second comparison what is needed is information on the spectrum of genetic alterations produced as well as whether this spectrum is consistent over a wide range of organisms

Chemical Mutagens Alexander Hollaender,2012-12-06 The ready acceptance and wide demand for copies of the first two volumes of Chemical Mutagens Principles and Methods Jar Their Detection have demon strated the need for wider dissemination of information on this timely and urgent subject Therefore it was imperative that a third volume be prepared to include more detailed discussions on techniques of some of the methods that were presented from a theoretical point of view in the first two volumes and to update this rapidly expanding field with current findings and the new developments that have taken place in the past three years Also included is a special chapter by Dr Charlotte Auerbach giving the historical background of the discovery of chemical mutagenesis Methods for recognizing mutagenic compounds in vitro are a necessary preliminary step toward arriving at satisfactory solutions for recognizing significant mutation rates in man which must be done before our test tube methods of detection can be considered reliable Two chapters in this volume make important contributions to this problem Due to the increasing activity in efforts to perfect techniques for detecting chemical mutagens and their effects on man it is planned to continue this series of volumes as necessary to keep abreast of current findings

Chemical Mutagens Environmental Effects on Biological Systems L Fishbein, 2012-12-02 Chemical Mutagens Environmental Effects on Biological Systems brings together relevant facts about synthetic and naturally occurring mutagenic chemicals Organized into two parts this book begins with a simple discussion on the modern concepts of the gene at the molecular and biochemical levels The first part also looks into the different types of mutations and how they form as well as the biological systems used for their detection The second part deals with the individual chemical mutagens of environmental significance including their manufacture occurrence method of detection degradation and metabolism It also

discusses the types of mutation chemical mutagens induce in the various test systems that have been utilized This book will serve as single source material for its utility to students investigators and those involved with public health Chemical Mutagenesis in Mammals and Man F. Vogel, G. Röhrborn, 1982-02-01 **Chemical Mutagens** Alexander **Chemical Mutagens** Frederick J. De Serr, A. Hollaender, 2013-06-29 Chemical Mutagens Alexander Hollaender, 2012-12-06 As editor I want especially to thank Dr Ernst Freese for helpful co operation in preparing these volumes and to express my appreciation to Drs Kurt Hirschhorn and Marvin Legator the other members of the editorial board Alexander Hollaender January 1971 Preface The purpose of these volumes is to encourage the development and ap plication of testing and monitoring procedures to avert significant human exposure to mutagenic agents The need for protection against exposure to possibly mutagenic chemicals is only now coming to be generally realized. The recently issued Report of the Secretary's Commission on Pesticides and Their Possible Effects on Health the Mrak Report U S Department of Health Education and Welfare December 1969 has made an important start Its Panel on Mutagenicity recommends that all currently used pesticides be tested for mutagenicity in several recently developed and relatively simple systems Whether recommendations such as these are actually put into effect will depend on convincing government industry and the public that the problem is important that the proposed tests would be effective and that they can be conducted at a cost that is not prohibitive Why is it important to screen environmental agents for mutagenic activity To those who will read this book the answer is self evident. The sine gua non of all that we value and all that we are is our genetic heritage Mutagenesis in Laboratory Mammals, 1973 Over 350 references to books and journal articles published during 1928 1973 Also covers foreign language literature Arranged under citation index Agent index Chemical abstracts registry number index Organism index KWIC index Author index First author index and Addendum Entries in Citation index and First author index provide essential bibliographical information Chemical Mutagens, 1971 Identifying and Estimating the Genetic Impact of Chemical Mutagens National Research Council (U.S.). Committee on Chemical Environmental Mutagens, 1983 And conclusions Introduction A primer on genetics mutation mutagens and the implications of mutagenesis Metabolism and pharmacologic disposition of mutagens and promutagens The nature of test systems Strategies for risk assessment the choice and use of test systems to estimative human germinal mututation Strategies for risk assessment relation between mutation rate and human welfare Testing and monitoring human populations A mutagen assessment program Some additional issues and research suggestions Mutation Breeding A. M. van Harten, 1998-06-25 An essential and comprehensive summary for all plant breeders Assessing Chemical Mutagens Victor K. McElheny, Seymour Abrahamson, 1979 Mutagenic Effects of Environmental Contaminants H.E. Sutton, 2012-12-02 Mutagenic Effects of Environmental Contaminants investigates the mutagenic consequences of environmental contaminants such as pesticides industrials food additives drugs and biologicals as well as the possible relationships between mutagenesis and carcinogenesis It describes the monitoring of

chemical mutagens in the environment and the ways that genetic mutations cause disease in humans Organized into 14 chapters this volume begins with an overview of the current burden of human genetic disease and the biochemical mechanisms of mutation It then discusses practical and feasible methods that use a variety of organisms to screen potential mutagenic agents increased mutation rates in human populations mutagens that are currently used commercially and the interrelationships between mutagenicity carcinogenicity and teratogenicity The reader is also introduced to genetic toxicology detection of chemically induced mutations in experimental animals and chromosome and somatic mutations in humans This book is a valuable resource for scientists policymakers and administrators of environmental programs

Chemical Mutagens Alexander Hollaender,Frederick J. de Serres,2012-12-06 Volume 9 of Chemical Mutagens consists mainly of chapters discussing the development and validation of short term assays to detect the mutagenic effects of environmental chemicals These chapters include an assay with the grasshopper neuroblast a comparison of mutagenic responses of human lung derived and skin derived diploid fibroblasts a forward mutation assay in Salmonella a multigene sporulation test in Bacillus subtilis a specific locus assay in mouse lymphoma cells a study of the induction of bacteriophage lambda and the granuloma pouch assay In addition there are two chapters on the identification of mutagens in cooked food and in human feces Frederick 1 de Serres Research Triangle Park North Carolina vii Contents Chapter 1 The Grasshopper Neuroblast Short Term Assay for Evaluating the Effects of Environmental Chemicals on Chromosomes and Cell Kinetics 1 Mary Esther Gaulden Jan C Liang and Martha J Ferguson 1 Introduction 1 2 Embryo Supply 4 2 1 Species 4 2 2 Origin of Colonies 4 2 3 Life Cycle 5 2 4 Colony Maintenance 6 2 5 Pathology 13 2 6 Allergy to Grasshoppers 14 3 Grasshopper Egg Embryo and Cells 14 3 1 The Egg Shell and Membranes 14 3 2 Embryonic Development 17 3 3 Cells 20 4 Methods 26 4 1 Exposure 26 4 2 Preparation of Embryos for Cell Analysis 34 4 3 Analysis of Mutagen Effects 40 5 Response of the Grasshopper Neuroblast to Mutagens 50 5 1 Reproducibility of Data 50 5 2 Radiation 51 5 3 Chemical Mutagens

Chemical Consequences Scott Frickel,2004 Hereis the first historical and sociological account of the formation of an interdisciplinary science known as genetic toxicology and of the scientists social movement that created it After research geneticists discovered that synthetic chemicals were capable of changing the genetic structure of living organisms scientists began to explore how these chemicals affected gene structure and function In the late 1960s a small group of biologists became concerned that chemical mutagens represented a serious and possibly global environmental threat Genetic toxicology is nurtured as much by public culture as by professional practices reflecting the interplay of genetics research and environmental politics Drawing on a wealth of resources Scott Frickel examines the creation of this field through the lens of social movement theory He reveals how a committed group of scientist activists transformed chemical mutagens into environmental problems mobilized existing research networks recruited scientists and politicians secured financial resources and developed new ways of acquiring knowledge The result is a book that vividly illustrates how science and activism were

interwoven to create a discipline that remains a defining feature of environmental health science Chemical Carcinogenesis and Mutagenesis II Colin S. Cooper, Philip L. Grover, 1990-01-31 I have been privileged to witness and participate in the great growth of knowledge on chemical carcinogenesis and mutagenesis since 1939 when I entered graduate school in biochemistry at the University of Wisconsin Madison I immediately started to work with the carcinogenic aminoazo dyes un der the direction of Professor CARL BAUMANN In 1942 I joined a fellow graduate student ELIZABETH CA VERT in marriage and we soon commenced a joyous part nership in research on chemical carcinogenesis at the McArdle Laboratory for Cancer Research in the University of Wisconsin Medical School in Madison This collaboration lasted 45 years I am very grateful that this volume is dedi cated to the memory of Elizabeth The important and varied topics that are reviewed here attest to the continued growth of the fields of chemical car cinogenesis and mutagenesis including their recent and fruitful union with viral oncology I feel very optimistic about the application of knowledge in these fields to the eventual solution of numerous problems including the detection and estimation of the risks to humans of environmental chemical carcinogens and re lated factors Comparative Chemical Mutagenesis M. D. ed SHELBY,1981 **Chemical Mutagens** Frederick J. De Serr, A. Hollaender, 2012-12-06 Volume 8 of Chemical Mutagens covers a wide range of topics in this continuously changing field This volume includes chapters on the detection of genetic damage in mammalian sperm both at specific loci and over the entire genome The discussion of in vitro techniques for working with mammalian cells covers not only specific locus assays but also cellular activation systems Another chapter extensively discusses the need for a revised protocol for the micronucleus assay Structure activity relationships are investigated in a chapter dealing with hair dye constituents One of the most comprehensive chapters deals with problems associated with the detection of mutagenic effects in defined human populations Finally there is a detailed presentation of a comprehensive study tabulating the genetic bioassay data on some known or suspected human carcinogens In keeping with our policy of publishing important legislation in the area of chemical mutagens we have also included the Council of the European Communities Directive of 18 September 1979 Frederick J de Serres Research Triangle Park North Carolina vii Contents Chapter 1 Detection of Effects of Mutagens in Human Populations George R Hoffmann 1 Introduction 1 2 Monitoring Progeny for Evidence of Germ Cell Mutations 3 2 1 The Classical Approach Phenotypic Monitoring 3 2 2 Monitoring for Changes in Gene Products 7 3 Detection of Gene Mutations in Somatic Cells 9 3 1 Drug Resistant Lymphocytes 9 3 2 Hemoglobin Variants 17 4 Nongenetic Indicators of Mutagen Exposure 21 4 1 Alkylation of Proteins 21 4 2 DNA Damage Comparative Chemical Mutagenesis Frederick De Chemical Mutagens Lawrence Fishbein, W. Gary Flamm, Hans L. Falk, 1970 Chemical Mutagens Serres, 2014-01-15 Environmental Effects on Biological Systems

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