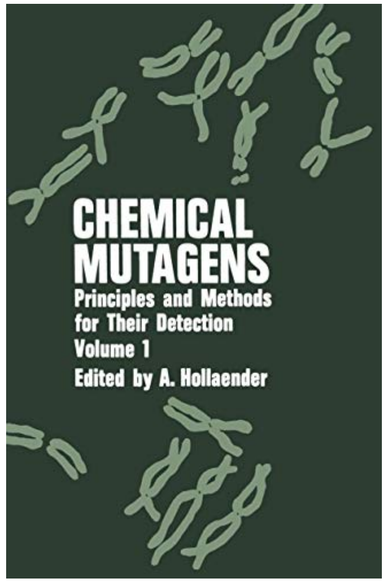

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Chemical Mutagens-Alexander Hollaender 1971

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Chemical Mutagens-Frederick J. De Serr 1984-10-01

Chemical Mutagens-Alexander Hollaender 1971-01-04 As editor I want especially to thank Dr. Ernst Freese for helpful co operation in preparing these volumes, and to express my appreclatlOn 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 qua non of all that we value and all that we are is our genetic heritage.

Federal Register- 1978

Pesticides Abstracts- 1981

Plant Mutation Breeding and Biotechnology-Q. Y. Shu 2012 Abstract: This book presents contemporary information on mutagenesis in plants and its applications in plant breeding and research. The topics are classified into sections focusing on the concepts, historical development and genetic basis of plant mutation breeding (chapters 1-6); mutagens and induced mutagenesis (chapters 7-13); mutation induction and mutant development (chapters 14-23); mutation breeding (chapters 24-34); or mutations in functional genomics (chapters 35-41). This book is an essential reference for those who are conducting research on mutagenesis as an approach to improving or modifying a trait, or achieving basic understanding of a pathway for a trait --.

Chemical 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

Carcinogenic and Mutagenic N-substituted Aryl Compounds- 1982

Handbook of Mutagenicity Test Procedures-B.J. Kilbey 2012-12-02 The compilation of this book was prompted by the necessity of a bench volume which could provide the necessary background information on materials, experimental design, pitfalls and dificulties, in order to perform a particular test in an acceptable way with a minimal need for additional expert help. This Second Edition updates this information, providing: - a comprehensive bench guide - methods known to be reliable - a broad spectrum of approaches - tips to avoid pitfalls when using unfamiliar techniques - data from population records - safety aspects of mutagens and carcinogens - basic statistical concepts for experiment design This `on the bench' methodological text provides the necessary information for most of the common assays for genetic damage in use. The book includes methods which have been sufficiently used and tested to make their use reliable, but also presents methods which are not widely used at present, but which might prove most useful in screening for mutagenic effects.

Selected Technical Publications-United States. Food and Drug Administration 1972 Each no. represents the results of the FDA research programs for half of the fiscal year.

Casarett and Doull's Toxicology-Louis J. Casarett 1986

Chemical Regulation Reporter-Bureau of National Affairs (Arlington, Va.) 1979

Genetic Toxicology-James M. Parry 2011-12-07 The evaluation of potential mutagenic activity is a critical step in the assessment of the safety of both new and pre-existing chemical types. In Genetic Toxicology: Principles and Methods, expert contributors help to satisfy the demand for education in this tremendously important area of study. The volume covers three basic areas: the scientific basis of the discipline, the methodologies of the main test assays, and the application of the methods, all aimed primarily at scientists in the safety departments of the industries working with both natural and synthetic chemicals. Written in the highly successful Methods in Molecular BiologyTM series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Intuitive and cutting-edge, Genetic Toxicology: Principles and Methods provides crucial support to both laboratory workers in providing quality information on the appropriate application of techniques and to study directors in their assay selection and protocol design in this vital field.

Encyclopedia of Genetics, Genomics, Proteomics, and Informatics-George P. Rédei 2008-04-25 This new third edition updates a best-selling encyclopedia. It includes about 56% more words than the 1,392-page second edition of 2003. The number of illustrations increased to almost 2,000 and their quality has improved by design and four colors. It includes approximately 1,800 current databases and web servers. This encyclopedia covers the basics and the latest in genomics, proteomics, genetic engineering, small RNAs, transcription factories, chromosome territories, stem cells, genetic networks, epigenetics, prions, hereditary diseases, and patents. Similar integrated information is not available in textbooks or on the Internet.

Mechanisms and Toxicity of Chemical Carcinogens and Mutagens-W. Gary Flamm 1985

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.

Molecular and Environmental Aspects of Mutagenesis-Louise Prakash 1974

Ecology of Disease- 1982

Eukaryotic Chromosomes-R. C. Sobti 1991

INIS Atomindeks- 1974

Chemical Carcinogenesis-Paul On Pong Ts'o 1974

General Principles and Etiology-James Wilson 1977 In less than 40 years teratology has grown from a little known discipline concerned with studies on the effects of a few physical and chemical stresses on developing fish, amphibians, and birds, to a discipline embracing a vast accumulation of literature on experimental studies in many animal forms and the results of intensive scrutiny of human development under varied conditions, as well. Emphasis has shifted from preoccupation with descrip tions of anatomical defects to concern about subtle and interacting causative factors, to searches for the early reactions to these at the cellular and subcellu lar levels, and to identification of abnormality in the chemical, the functional, and the ultrastructural realms. These changes in orientation have quite naturally made necessary the recruitment of concepts, methods, and expertise from other disciplines. Hence the foundations of teratology, which once were largely morphological, have extended into genetics, biochemistry, molecular biology, reproductive physiology, epidemiology, and several aspects of veteri nary and clinical medicine. It is not surprising that a student or new investigator approaching the field of teratology may feel some dismay when confronted with the confusing array of cross-disciplinary concepts and principles it encompasses today. One of the aims of this work is to introduce what the editors believe is a logical thread of continuity into a field that may be regarded by some as a welter of disordered information.

Proceedings of the National Academy of Sciences of the United States of America-National Academy of Sciences (U.S.) 1981-05

Environmental Cancer-Herman Fink Kraybill 1977

IARC Scientific Publications-International Agency for Research on Cancer 1976

Proceedings of the European Society for the Study of Drug Toxicity-European Society for the Study of Drug Toxicity 1973

Proceedings-European Society for the Study of Drug Toxicity 1973

Chemical Carcinogens-Charles E. Searle 1976 Cancer causing agents are now known to exist throughout the environment-in polluted air and tobacco smoke, in various plants and foods, and in many chemicals that are used in industry and laboratories. With the incidence of cancer apparently on the rise, there has been an even greater push to find the causes of this ancient disease. The increased worldwide research effort has produced a vast amount of data and new information which must be collated and interpreted. This monograph contains comprehensive accounts of the latest theories of cancer chemistry and biology and of the major hazards identified so far.

Genetic Toxicology-Albert P. Li 1991-03-27 Genetic Toxicology is a comprehensive book covering the historical perspective of genetic toxicology; basic mechanisms of mutations and chromosomal effects; health consequences of genetic damage, including cancer and inheritable mutations; properties of physical, chemical, and biological mutagens; risk assessment of human exposure to genotoxicants; and the current position of some government regulatory agencies in the United States on the issues of genetic toxicology. The book will be a useful reference for students and researchers in toxicology, genetics, cancer biology, and medicine who are interested in the basic and applied principles of genetic toxicology. It will also benefit industrial toxicologists, products registration specialists, and government regulatory specialists with responsibility for the safety evaluation of industrial and environmental agents.

Trends in Environmental Mutagenesis- 1999

Environmental Mutagenesis- 1987

In Vitro Toxicity Testing Of Environmental Agents, Current and Future Possibilities-Alan R. Kolber 1983 'MRI in Clinical Practice' provides an easily accessible source of reference material to supplement existing texts, distilling a wide breadth of theoretical and practical information into a pocket-sized manual. The book covers the basic Physics behind MRI, quality assurance, up-to-date safety guidelines and a useful gallery of image artefacts. Part of the book focuses on the specific areas of the body in which MRI is currently exploited, describing how MRI is performed in practice. As well as covering routine clinical techniques, the latest advanced methods (e.g. spectroscopy, fMRI, diffusion, high field MRI) are discussed and placed into the context of clinical application. Written from both a Physics and Radiological point-of-view, the book has a wide multidisciplinary appeal and is specifically targeted at MRI practitioners or trainees, as well as post-graduate students, physicists, radiographers and radiologists.

Guidelines for the Testing of Chemicals for Mutagenicity-Great Britain. Committee on Mutagenicity of Chemicals in Food, Consumer Products, and the Environment 1989

Handbook of Carcinogen Testing-Harry A. Milman 1985

New Methods in Environmental Chemistry and Toxicology-Frederick Coulston 1973

Barley Genetics III-Horst Gaul 1976

Safety and Accident Prevention in Chemical Operations-Howard H. Fawcett 1982-10-14 This thorough review of accident prevention in chemical operations emphasizes the reasons behind rules instead of just the rules themselves. The revised edition includes chapters on hazardous chemical waste disposal, pressure relief for chemical processes, toxicity and the TASCA law, developments in fire extinguishment, and updated information on chemical experimentation. Text includes a list of carcinogens, a list of chemical waste sites targeted by the EPA, and bibliographies to encourage further reading.

Rat Liver Homogenate-mediated Toxicity and Induction of 6-thioguanine-resistance in V79 Chinese Hamster Cells by Chemical Carcinogens-David Frederick Krahn 1976