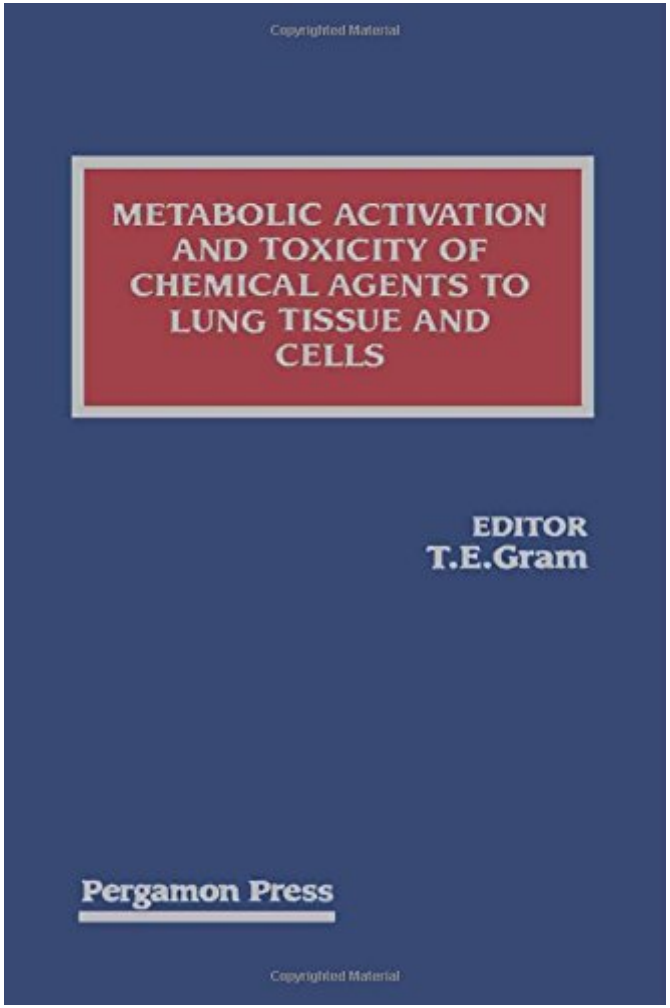

[DOC] Metabolic Activation And Toxicity Of Chemical Agents To Lung Tissue And Cells

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Metabolic Activation and Toxicity of Chemical Agents to Lung Tissue and Cells-Theodore E. Gram 1993 Research has shown that the lung is capable of metabolically activating xenobiotics into intermediates that can covalently bind to pulmonary tissue. Further, it has been shown that the lung consists of many distinct cell types with the ability to take up and sequester metabolically unchanged drugs and chemicals that are ultimately toxic in effect. This volume reflects the extent of these developments and provides a state-of-the art reference in a rapidly evolving field incorporating both drug metabolism and pulmonary toxicology research.

Biological Reactive Intermediates III-James J. Kocsis 2012-12-06 This volume contains the proceedings of the third in a series of conferences entitled, The International Symposium on Biological Reactive Intermediates. The first was held at the University of Turku in Finland, in 1975, the second at the University of Surrey in the United Kingdom, in 1980 and the most recent at the University of Maryland in the United States, in 1985. The significance of these conferences has been emphasized by the rapid growth of mechanistic toxicology over the last decade. These conferences were initially stimulated by the attempt to uncover the significance behind the observations that the toxicity of carcinogenic responses produced by many chemicals was associated with the observation that their metabolism led to the formation of chemcially reactive electrophiles which covalently bound to nucleophilic sites in cells such as proteins, nucleic acid or fats. Recently, newer concepts have arisen which have necessitated the expansion of subjects covered by the conference. For example, the application of newer knowledge of the role of active oxygen species in reactive metabolite formation, the concept of suicide substrates, examination of the function of glutathione in cells, application of immunological techniques and molecular biological probes to the solution of toxicological problems all had an impact on the study of the biological reactive intermediates.

Metabolic Activation and Toxicity of Chemical Agents to Lung Tissue and Cells-T.E. Gram 2013-10-22 Research has shown that the lung is capable of metabolically activating xenobiotics into intermediates that can covalently bind to pulmonary tissue. Further, it has been shown that the lung consists of many distinct cell types with the ability to take up and sequester metabolically unchanged drugs and chemicals that are ultimately toxic in effect. This volume reflects the extent of these developments and provides a state-of-the art reference in a rapidly evolving field incorporating

both drug metabolism and pulmonary toxicology research.

Advances in Molecular Toxicology- 2013-08-12 Advances in Molecular Toxicology features the latest advances in all of the subspecialties of the broad area of molecular toxicology. Toxicology is the study of poisons, and this series details the study of the molecular basis by which a vast array of agents encountered in the human environment and produced by the human body itself manifest themselves as toxins. Not strictly limited to documenting these examples, the series is also concerned with the complex web of chemical and biological events that give rise to toxin-induced symptoms and disease. The new technologies that are being harnessed to analyze and understand these events will also be reviewed by leading workers in the field. Advances in Molecular Toxicology will report progress in all aspects of these rapidly evolving molecular aspects of toxicology with a view toward detailed elucidation of progress on the molecular level and on advances in technological approaches employed. Cutting-edge reviews by leading workers in the discipline In-depth dissection of molecular aspects of interest to a broad range of scientists, physicians and any student in the allied disciplines Leading edge applications of technological innovations in chemistry, biochemistry and molecular medicine

Biomarkers in Toxicology-Ramesh C. Gupta 2019-02-13 Biomarkers in Toxicology, Second Edition, is a timely and comprehensive reference dedicated to all aspects of biomarkers that relate to chemical exposure and their effects on biological systems. This revised and completely updated edition includes both vertebrate and non-vertebrate species models for toxicological testing and the development of biomarkers. Divided into several key sections, this reference volume contains new chapters devoted to topics in microplastics, neuroimmunotoxicity and nutraceuticals, along with a look at the latest cutting-edge technologies used to detect biomarkers. Each chapter contains several references to current literature and important resources for further reading. Given this comprehensive treatment, this book is an essential reference for anyone interested in biomarkers across the scientific and biomedical fields. Evaluates the expansive literature, providing one resource covering all aspects of toxicology biomarkers Includes completely revised chapters, along with additional chapters on the newest developments in the field Identifies and discusses the most sensitive, accurate, unique and validated biomarkers used as indicators of exposure Covers special topics and applications of biomarkers, including chapters on molecular toxicology biomarkers, biomarker analysis for nanotoxicology, development of biomarkers for drug efficacy evaluation, and much more

Metabolism of Polycyclic Aromatic Hydrocarbons in the Aquatic Environment-Usha Varanasi 1989-03-31 This book shows how the biological transport, bioaccumulation, disposition, and toxicity of polycyclic aromatic hydrocarbons (PAH) in the aquatic environment are influenced by the ability or inability of organisms to metabolize these environmental pollutants. Written by leading scientists in the fields of PAH metabolism and toxicity in both aquatic and mammalian systems, this book discusses recent advances in the areas of PAH biogeochemistry and bioaccumulation, microbial degradation, enzymes of activation, and detoxication, metabolism of PAH, and laboratory and field studies on carcinogenic/toxic effects. Additionally, important similarities and differences in metabolism of PAH by aquatic and terrestrial organisms are featured. The discussion of bioavailability, metabolism, and subsequent toxic effects should aid in the assessment of the ecological consequences of PAH in the aquatic environment.

Toxicity and Metabolism of Explosives-Jehuda Yinon 1990-06-30 The purpose of this important monograph is to provide the reader with a better understanding of the toxicity, channels of absorption, and metabolism of explosives by the body. This one-of-a-kind work also incorporates the symptoms and clinical manifestations of poisoning by these compounds. It discusses how the disposal of explosives and their degr

Target Organ Toxicity, Volume I-Gerald M. Cohen 2020-01-29 This two-volume set provides essential information on the general princi-ples of target organ toxicity. Pharmacokinetics, metabolic activation and key defense mechanisms, excretion, species variation, and tissue-specific

biochemistry are explored comprehensively. These general principles are then illustrated using specific examples of toxicity to different target organs and systems. DNA modifi-cation and repair in tumor induction, and specificity in tumor initiation are also examined. Of primary interest to toxicologist, pharma-cologists, biochemists, and environmental toxicologists.

Genetic Toxicology Testing-Ray Proudlock 2016-05-28 Genetic Toxicology Testing: A Laboratory Manual presents a practical guide to genetic toxicology testing of chemicals in a GLP environment. The most commonly used assays are described, from laboratory and test design to results analysis. In a methodical manner, individual test methods are described step-by-step, along with equipment, suggested suppliers, recipes for reagents, and evaluation criteria. An invaluable resource in the lab, this book will help to troubleshoot any assay problems you may encounter to optimise quality and efficiency in your genetic toxicology tests. Genetic Toxicology Testing: A Laboratory Manual is an essential reference for those new to the genetic toxicology laboratory, or anyone involved in setting up their own. Offers practical and consistent guidance on the most commonly-performed tests and procedures in a genetic toxicology lab Describes standard genetic toxicology assays, their methodology, reagents, suppliers, and analysis of their results Includes guidance on general approaches: formulation for in vitro assays, study monitoring, and Good Laboratory Practice (GLP) Serves as an essential reference for those new to the genetic toxicology laboratory, or anyone involved in setting up their own lab

Disease, Metabolism and Reproduction in the Toxic Response to Drugs and Other Chemicals-P. L. Chambers 1984-10-01

Metabolism, Pharmacokinetics and Toxicity of Functional Groups-Dennis A Smith 2010-04-09 Until now, the area of drug metabolism and pharmacokinetics has been lacking in texts written for the Medicinal Chemist. This outstanding book, aimed at postgraduate medicinal chemists and those working in industry, fills this gap in the literature. Written by medicinal chemists and ADMET scientists with a combined experience of around 300 years, this aid to discovering drugs addresses the absorption, distribution, metabolism, excretion and toxicity (ADMET) issues associated with drugs. The book starts by describing drug targets and their structural motifs before moving on to explain ADMET for the medicinal chemist. It is the functional groups which most profoundly influence the drug molecules of which they form a part. They characterise the pharmacology, are essential to the activity, and alter the ADMET characteristics of each drug. Their effects follow a pattern, thus allowing medicinal chemists to predict and overcome potential challenges. For this reason, the Editors have taken the unique approach of dividing the remainder of the book into chapters which each focus on a different functional group. They describe drugs containing the functional group under consideration, explain why the group is there, and outline its physicochemical properties before going on to detail the ADMET issues. Where possible, prodrugs and bioisosteres, which may give alternative ADMET outcomes, are described. The chapters cross refer where similar matters are covered but individual chapters can be used in a stand alone manner. The book ends with a discussion of future targets and chemistry needs.

Xenobiotic Metabolic Enzymes: Bioactivation and Antioxidant Defense-Chang-Hwei Chen 2020-04-03 This book provides a comprehensive, organized, and concise overview of xenobiotic metabolic enzymes and their health implications. The subjects addressed are broad in scope with an emphasis on recent advances in research on biochemical and biomedical aspects of these enzymes. The xenobiotics discussed include not just drugs, but also food, smoke, and other environmental chemicals. The subjects covered in this work include: metabolic enzymes and their catalyzed reactions, reactive intermediates generated from metabolic activation, oxidative stress mediated by electrophilic reactive intermediates, bioactivation - mediated cellular and functional damages, activation of Nrf2 – ARE pathway, genetic variations affecting metabolic enzyme expression, enzyme polymorphisms affecting xenobiotic - mediated toxicity, induction of metabolic enzymes for health benefits, and a diversity of metabolic enzyme modulators.

Cytochromes P450-Costas Ioannides 2008 With contributions by a team of internationally respected scientists, this book provides up-to-date information on the extensively studied cytochrome P450 enzyme in a very accessible manner.

Reactive Drug Metabolites-Amit S. Kalgutkar 2012-09-06 Closing a gap in the scientifi c literature, this first comprehensive introduction to the topic is based on current best practice in one of the largest pharmaceutical companies worldwide. The first chapters trace the development of our understanding of drug metabolite toxicity, covering basic concepts and techniques in the process, while the second part details chemical toxicophores that are prone to reactive metabolite formation. This section also reviews the various drug-metabolizing enzymes that can participate in catalyzing reactive metabolite formation, including a discussion of the structure-toxicity relationships for drugs. Two chapters are dedicated to the currently hot topics of herbal constituents and IADRs. The next part covers current strategies and approaches to evaluate the reactive metabolite potential of new drug candidates, both by predictive and by bioanalytical methods. There then follows an in-depth analysis of the toxicological potential of the top 200 prescription drugs, illustrating the power and the limits of the toxicophore concept, backed by numerous case studies. Finally, a risk-benefi t approach to managing the toxicity risk of reactive metabolite-prone drugs is presented. Since the authors carefully develop the knowledge needed, from fundamental considerations to current industry standards, no degree in pharmacology is required to read this book, making it perfect for medicinal chemists without in-depth pharmacology training.

Environmental Health Perspectives- 1998

Target Organ Toxicity-Gerald M. Cohen 2020-04-28 First published in 1986: This two-volume set provides essential information on the general princi-ples of target organ toxicity. Pharmacokinetics, metabolic activation and key defense mechanisms, excretion, species variation, and tissue-specific biochemistry are explored comprehensively. These general principles are then illustrated using specific examples of toxicity to different target organs and systems. DNA modifi-cation and repair in tumor induction, and specificity in tumor initiation are also examined. Of primary interest to toxicologist, pharma-cologists, biochemists, and environmental toxicologists.

Studies on the Mechanism of Metabolic Activation of Ftorafur (R, S-1-(tetrahydro-2-furanyl)-5-fluorouracil) to 5-fluourouracil-Jessie Lai-Sim Au 1980

Current Concepts in Drug Metabolism and Toxicology-Gabrielle M. Hawksworth 2012 This new volume of Advances in Pharmacology explores the current concepts in drug metabolism and toxicology. Chapters cover the Keap1-Nrf2 cell defense pathway, animal models of drug-induced idiosyncratic toxicity and the use of human embryonic and induced pluripotent stem cells for modeling metabolism and toxicity. With a variety of chapters and the best authors in the field, the volume is an essential resource for pharmacologists, immunologists and biochemists alike. Explores the current concepts in drug metabolism and toxicology Chapters cover such areas as the Keap1-Nrf2 cell defense pathway, animal models of drug-induced idiosyncratic toxicity and the use of human embryonic and induced pluripotent stem cells for modeling metabolism and toxicity An essential resource for pharmacologists, immunologists and biochemists alike

Cytochrome P-450-Paul Ortiz De Monetllano 2013-06-29 Major advances have been made in recent years in clarifying the molecular properties of the cytochrome P-450 system. These advances stem, in practical terms, from the generally recognized importance of cytochrome P-450 in the metabolism of drugs and in the bioactivation of xenobiotics to toxic products. The fascinating multiplicity and differential regulation of cytochrome P-450 isozymes, and their ability to catalyze extraordinarily difficult chemical transformations, have independently drawn many chemists and biochemists into the P-450 circle. Progress in the field, from a technical point of view,

has been propelled by the de velopment of reliable procedures for the purification of membrane-bound enzymes, by the growing repertoire of molecular biological techniques, and by the development of chemical models that mimic the catalytic action of P-450. As a result, our understanding of the P-450 system is moving from the descriptive, pharmacological level into the tangible realm of atomic detail. The rapid progress and multidisciplinary character of the cytochrome P-450 field, which cuts across the lines that traditionally divide disciplines as diverse as inorganic chemistry and genetics, have created a need for an up-to-date evaluation of the advances that have been made. It is hoped that this book, with its molecular focus on the cytochrome P-450 system, will alleviate this need. The authors of the individual chapters have strived to emphasize recent results without sacrificing the background required to make their chapters comprehensible to informed nonspecialists.

Biological Reactive Intermediates Vi-Patrick M. Dansette 2012-12-06 This volume presents a discussion of the biological effects produced following the metabolism of xenobiotic chemicals to chemically reactive metabolites, i.e., toxic and carcinogenic effects, which have been the basis of all five earlier volumes in this series. In particular, this volume devotes sections to structure-activity relationships, recent advances in the understanding of the chemistry of reactive metabolites, and the generation and activity of reactive oxygen species with special emphasis on nitric oxide. There are also segments on DNA damage by reactive metabolites and DNA repair, tissue specific responses to BRIs, and human health effects of BRIs. The papers that comprise this volume were submitted by world class scientists who were in attendance at The Symposium on Biological Reactive Intermediates VI at the Université René Descartes, July 16-20, 2000.

Toxic Interactions-Robin S. Goldstein 2013-10-22 Toxic Interactions is a collection of papers that discusses the basic principles behind the mechanism of toxicological interactions. This book deals with interacting chemicals and their effects on certain exposed organs or molecules. Concerning discussion of the principles, contributed papers explain the role of xenobiotic biotransformation processes in inactivating reactive intermediates of toxicants. Other authors discuss the effects of endogenous molecules and the consequences of chemically induced depletion of protective agents, as well as the pharmacokinetic principles that affect chemical interactions. Several authors also review experiments on the types of chemicals that produce or increase the degree of toxicity. The text reviews the results of liver and kidney injuries from exposure to two or more chemicals, while other papers focus on lung and heart toxicity. For example, direct mechanism of cardio toxicity includes toxicity due to an increase in plasma concentrations of the compound, or as in latent cardiac toxicity that is a product of another action on another system of organs. Professors in pharmacology, practitioners of general medicine, specialists or researchers dealing with microchemistry, toxicology or drug therapy will find this reference valuable.

Anticholinesterase Pesticides-Tetsuo Satoh 2011-03-25 This book offers an important reference source about the most common classes of pesticides for researchers engaged in the area of neurotoxicology, metabolism, and epidemiology. The book presents details about thorough characterization of target and non-target enzymes and proteins involved in toxicity and metabolism; and epidemiology of poisonings and fatalities in people from short- and long- term exposures to these pesticides in different occupational settings on an individual country basis as well as on a global basis. The early portion of the book deals with metabolism, mechanisms and biomonitoring of anticholinesterase pesticides, while the later part deals with epidemiological studies, regulatory issues, and therapeutic intervention.

Veterans and Agent Orange-National Academies of Sciences, Engineering, and Medicine 2019-01-20 From 1962 to 1971, the U.S. military sprayed herbicides over Vietnam to strip the thick jungle canopy that could conceal opposition forces, to destroy crops that those forces might depend on, and to clear tall grasses and bushes from the perimeters of US base camps and outlying fire-support bases. Mixtures of 2,4-dichlorophenoxyacetic acid (2,4-D), 2,4,5-trichlorophenoxyacetic acid (2,4,5-T), picloram, and cacodylic acid made up the bulk of the herbicides sprayed. The main chemical mixture sprayed was Agent Orange, a 50:50 mixture of 2,4-D and 2,4,5-T. At the time of the spraying, 2,3,7,8-tetrachlorodibenzo-p-

dioxin (TCDD), the most toxic form of dioxin, was an unintended contaminant generated during the production of 2,4,5-T and so was present in Agent Orange and some other formulations sprayed in Vietnam. Because of complaints from returning Vietnam veterans about their own health and that of their children combined with emerging toxicologic evidence of adverse effects of phenoxy herbicides and TCDD, the National Academies of Sciences, Engineering, and Medicine was asked to perform a comprehensive evaluation of scientific and medical information regarding the health effects of exposure to Agent Orange, other herbicides used in Vietnam, and the various components of those herbicides, including TCDD. Updated evaluations were conducted every two years to review newly available literature and draw conclusions from the overall evidence. Veterans and Agent Orange: Update 11 (2018) examines peer-reviewed scientific reports concerning associations between various health outcomes and exposure to TCDD and other chemicals in the herbicides used in Vietnam that were published between September 30, 2014, and December 31, 2017, and integrates this information with the previously established evidence database.

Encyclopedia of Cancer-Manfred Schwab 2008-09-23 This comprehensive encyclopedic reference provides rapid access to focused information on topics of cancer research for clinicians, research scientists and advanced students. Given the overwhelming success of the first edition, which appeared in 2001, and fast development in the different fields of cancer research, it has been decided to publish a second fully revised and expanded edition. With an A-Z format of over 7,000 entries, more than 1,000 contributing authors provide a complete reference to cancer. The merging of different basic and clinical scientific disciplines towards the common goal of fighting cancer makes such a comprehensive reference source all the more timely.

Carbofuran and Wildlife Poisoning-Ngaio Richards 2011-11-11 This cutting-edge title is one of the first devoted entirely to the issue of carbofuran and wildlife mortality. It features a compilation of international contributions from policy-makers, researchers, conservationists and forensic practitioners and provides a summary of the history and mode of action of carbofuran, and its current global use. It covers wildlife mortality stemming from legal and illegal uses to this point, outlines wildlife rehabilitation, forensic and conservation approaches, and discuss global trends in responding to the wildlife mortality. The subject of carbofuran is very timely because of recent parallel discussions to withdraw and reinstate the insecticide in different parts of the world. Incidences of intentional and unintentional wildlife poisonings using carbofuran are undeniably on the rise, especially in Africa and India and gatherings of stakeholders are being organized and convened on a global basis. There is still a need to consolidate information on the different experiences and approaches taken by stakeholders. Carbofuran and Wildlife Poisoning is a comprehensive overview of global wildlife mortality, forensic developments and monitoring techniques and is a definitive reference on the subject. It comprises of historical and current perspectives, contributions from key stakeholders in the issue of global wildlife poisonings with carbofuran, people on the ground who deal with the immediate and long-term ramifications to wildlife, those who have proposed or are working towards mitigative measures and solutions, those in contact with intentional or unintentional 'offenders', those who have adapted and developed forensic methodology and are gathering evidence. "Carbofuran and Wildlife Poisoning is a collection of meticulously researched papers from all around the world that provide shocking facts about the effects of a deadly insecticide on wildlife. The book discusses the hundreds of thousands of animals, from elephants to fish, that are poisoned each year, the efforts to rehabilitate those which have been rescued, and the often heroic efforts to ban or reduce the use of the deadly chemical. This book is a must for all those concerned with the problem." —Jane Goodall, PhD, DBE, Founder - the Jane Goodall Institute & UN Messenger of Peace, October 2011

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

Advances in Bioactivation Research-Adnan Elfarra 2009-10-08 This volume provides researchers with recent information on bioactivation reactions of drugs and toxicants. It also provides examples of how molecular and genomic biology, proteomics, mass spectrometry, and computational

modeling are used in bioactivation research. In other sections, focus is on recent applications of bioactivation research in pharmacology, toxicology, and environmental health sciences, where contributors demonstrate the integration of bioactivation research.

Chemical Carcinogenesis-Trevor M. Penning 2011-03-03 This volume will provide a contemporary account of advances in chemical carcinogenesis. It will promote the view that it is chemical alteration of the DNA that is a route cause of many cancers. The multi-stage model of chemical carcinogenesis, exposure to major classes of human carcinogens and their mode-of-action will be a focal point. The balance between metabolic activation to form biological reactive intermediates and their detoxification, ensuing DNA-lesions and their repair will be profiled. It will describe the chemical changes that occur in DNA that result from endogenous insults including epigenetic changes that lead to gene silencing. It will describe major mechanisms of mutagenesis, affects on tumor suppressor genes and proto-oncogenes, and how cell-cycle check points can be by-passed by the "stealth-like" properties of chemical carcinogens. Environmental agents that can promote tumor formation will be discussed. The monograph will have wide appeal as a knowledge base for graduate students, post-doctoral fellows and faculty interested in this aspect of cancer causation and research.

THE N-ACETYLATION POLYMORPHISM: THE METABOLIC ACTIVATION OF 2-AMINOFLUORENE AND DNA DAMAGE IN MICE.-LAWRENCE KEITH SILBART 1987 At low doses of 2-AF (1.5-2.1 mg/kg), the slow acetylating A/J mouse line demonstrated an 80% increase in nuclear DNA damage over the B6 line (p $

Using Mass Spectrometry for Drug Metabolism Studies-Walter A. Korfmacher 2004-12-17 Mass spectrometry (MS) is fast becoming the premier tool for analyzing various drug metabolism samples in the early phases of drug discovery and research. Introducing the newer, more powerful MS equipment and exploring new applications for using them, this book provides a state-of-the-art look at this promising field. Using Mass Spectrometry for Drug Metabolism Studies is an excellent resource for professionals in the fields of mass spectrometry and drug metabolism. It offers current knowledge in stand–alone chapters that address specific topics thoroughly enough to be read independently, with notes and references to other chapters for further reading. The first eight chapters discuss current topics regarding the use of MS for analyzing various types of in vitro and in vivo drug metabolism samples and the final four chapters describe the latest MS technology and its uses. In each chapter, expert authors demonstrate how to apply MS to determine drug metabolism parameters. They also explain the different drug metabolism concepts and their importance. Although there are a few books currently on the market that address this topic, they are rapidly becoming out-of-date. This book gives drug researchers and pharmacokineticists the latest information available on this important technology.

Multiple Metabolic Activation Pathways of Ftorafur, R,S-1-(tetrahydro-2-furanyl)5-fluorouracil-Yousry Mahmoud El-Sayed 1983

The Scientific Basis of Toxicity Assessment-Hanspeter R. Witschi 1980

Role of Carboxylesterase Inhibition and Metabolism in the Male Reproductive Toxicity of Molinate-William Timothy Jewell 1998

Metabolism and Neural Toxicity of Organophosphorus Compounds-Edward Chow 1986

Journal of the National Cancer Institute- 1989

The Practice of Medicinal Chemistry-Camille Georges Wermuth 2015-07-01 The Practice of Medicinal Chemistry, Fourth Edition provides a

practical and comprehensive overview of the daily issues facing pharmaceutical researchers and chemists. In addition to its thorough treatment of basic medicinal chemistry principles, this updated edition has been revised to provide new and expanded coverage of the latest technologies and approaches in drug discovery. With topics like high content screening, scoring, docking, binding free energy calculations, polypharmacology, QSAR, chemical collections and databases, and much more, this book is the go-to reference for all academic and pharmaceutical researchers who need a complete understanding of medicinal chemistry and its application to drug discovery and development. Includes updated and expanded material on systems biology, chemogenomics, computer-aided drug design, and other important recent advances in the field Incorporates extensive color figures, case studies, and practical examples to help users gain a further understanding of key concepts Provides high-quality content in a comprehensive manner, including contributions from international chapter authors to illustrate the global nature of medicinal chemistry and drug development research An image bank is available for instructors at www.textbooks.elsevier.com

Drug Metabolism and Drug Toxicity-American Society for Pharmacology and Experimental Therapeutics 1984

The Effects of Butylated Hydroxytoluene on the Metabolism and Toxicity of Aflatoxin B in the Rat-Mark Yutaka Fukayama 1984

Biochemical Ecotoxicology-Francois Gagne 2014-07-07 Biochemical Ecotoxicology: Principles and Methods presents practical approaches to biochemical ecotoxicology experiments for environmental protection and conservation. With its methodical, stepped approach this essential reference introduces readers to current techniques for toxicity endpoint testing, suitable for laboratories of any size and budget. Each chapter presents a state-of-the-art principle, a quick and inexpensive procedure (including appropriate reagents), case studies, and demonstrations on how to analyze your results. Generic techniques are covered, suitable for a variety of organisms, as well as high-throughput techniques like quantitative polymerase chain reactions and enzyme-linked immunoassays. Cutting-edge approaches, including gPCR arrays and lipidomic techniques, are also included, making this is an essential reference for anyone who needs to assess environmental toxicity. Practical, cost-effective approaches to assess environmental toxicity endpoints for all types of organism Presents theory, methods, case studies and information on how to analyze results State-of-the-art techniques, such as ‘omics’ approaches to toxicology

BIOCHEMICAL MECHANISMS OF TOXICITY OF ORTHOCHLOROPHENOL.-WILLIAM HAYWOOD HOUSER 1983 Orthochlorophenol represents a significant and moderately persistent contaminant in water in localized areas. This research examines the in vivo and in vitro metabolism of orthochlorophenol as it relates to the toxicity of this compound.