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ACS Publications

Drug Metabolism Concepts Acs Symposium Series 44

Martin R. Osborne, Neil T. Crosby



Drug Metabolism Concepts Acs Symposium Series 44:

Drug Metabolism Concepts Donald M. Jerina, 1977 Current Catalog National Library of Medicine (U.S.), 1980 First multi year cumulation covers six years 1965-70 *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 The NLM Technical Bulletin, 1977

Cumulated Index Medicus, 1966 Toxicology Y. Cohen, 2013-10-22 *Advances in Pharmacology and Therapeutics* Volume 9 Toxicology is a collection of papers that tackles advances in toxicological research in context of pharmacology The text first covers reactive metabolites and their implications for toxicology Next the selection deals with the experimental and clinical correlations of behavioral toxicology The text also tackles toxicology and pharmacology of topical application The book will be of great use to researchers and practitioners of health related disciplines *Benzopyrenes* Martin R. Osborne, Neil T. Crosby, 1987-06-18 This volume surveys the chemistry and cancer causing properties of the polycyclic hydrocarbons benzo a pyrene and benzo e pyrene Benzo a pyrene is a pollutant formed whenever organic matter is burnt it occurs in soot tar cigarette smoke and automobile exhaust and in small amounts in the atmosphere in water and in soil It produces cancer in small mammals and is probably also carcinogenic in humans It has been widely studied both as a measure of industrial pollution and as a model compound in studies of the mechanism of induction of cancer Information about the compound is scattered through the scientific literature in various journals conference proceedings and other publications this book is the first to gather all this information together for easy reference It includes chapters on the synthesis physical and chemical properties of benzopyrene its metabolism interaction with DNA and induction of mutation and cancer and also its environmental occurrence and analysis There are copious references to the original literature The volume will provide a valuable source of reference for cancer research scientists environmental scientists working in the area of pollution monitoring public health industrial safety food and drugs chemists and biochemists Foye's Principles of Medicinal Chemistry Thomas L. Lemke, David A. Williams, 2012-01-24 Acclaimed by students and instructors alike Foye's Principles of Medicinal Chemistry is now in its Seventh Edition featuring updated chapters plus new material that meets the needs of today's medicinal chemistry courses This latest edition offers an unparalleled presentation of drug discovery and pharmacodynamic agents integrating principles of medicinal chemistry with pharmacology pharmacokinetics and clinical pharmacy All the chapters have been written by an international team of respected researchers and academicians Careful editing ensures thoroughness a consistent style and format and easy navigation throughout the text **Basis and**

Mechanisms of Regulation of Cytochrome P-450 Klaus Ruckpaul, Horst Rein, 2022-02-07 No detailed description available for Basis and Mechanisms of Regulation of Cytochrome P 450 *Inhibition of Tumor Induction and Development* Morris S. Zedeck, Martin Lipkin, 2013-11-21 The primary purpose of this book is to bring to the attention of members of the medical and scientific communities as well as to other interested persons a new and expanding area of investigation that features the use of chemicals for the prevention of tumor induction and development This novel use of chemical compounds has succeeded in producing a remarkable series of discoveries in recent years Some of these are beginning to be evaluated in the field of clinical oncology in a manner that has potentially enormous public health implications It is anticipated therefore that increasing amounts of time energy and financial resources will be devoted to the further development and expansion of this work The major contribution of this book at the present time is that it summarizes and brings up to date the pioneering efforts of the various scientists who originated this new and exciting field of scientific activity The thoughts expressed by Louis Pasteur in 1884 may soon be applicable in the fight against cancer When meditating over a disease I never think of finding a remedy for it but instead a means of preventing it The emphasis on cancer prevention currently underway is the result in part of an increased awareness that the environment geographical cultural and occupational has a role in development of the disease *Foye's Principles of Medicinal Chemistry* David A. Williams, William O. Foye, Thomas L. Lemke, 2002 This comprehensive Fifth Edition has been fully revised and updated to meet the changing curricula of medicinal chemistry courses The new emphasis is on pharmaceutical care that focuses on the patient and on the pharmacist a therapeutic clinical consultant rather than chemist Approximately 45 contributors respected in the field of pharmacy education augment this exhaustive reference New to this edition are chapters with standardized formats and features such as Case Studies Therapeutic Actions Drug Interactions and more Over 700 illustrations supplement this must have resource

Health Assessment Document for 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) and Related Compounds, 1994 *Pest Resistance to Pesticides* G. P. Georghiou, 2012-12-06 The development of resistance to pesticides is generally acknowledged as one of the most serious obstacles to effective pest control today Since house flies first developed resistance to DDT in 1946 more than 428 species of arthropods at least 91 species of plant pathogens five species of noxious weeds and two species of nematodes were reported to have developed strains resistant to one or more pesticides A seminar of U S and Japanese scientists was held in Palm Springs California during December 3 7 1979 under the U S Japan Cooperative Science Program in order to evaluate the status of research on resistance and to discuss directions for future emphasis A total of 32 papers were presented under three principal topics Origins and Dynamics of Resistance 6 Mechanisms of Resistance 18 and Suppression and Management of Resistance 8 The seminar was unique in that it brought together for the first time researchers from the disciplines of entomology plant pathology and weed science for a comprehensive discussion of this common problem Significant advances have been identified in the development of methods for detection and monitoring of

resistance in arthropods electrophoresis diagnostic dosage tests and plant pathogens b research on biochemical and physiological mechanisms of resistance cytochrome p450 sensitivity of target site gene regulation c the identification and quantification of biotic genetic and operational factors influencing the evolution of resistance and d the exploration of pest management approaches incorporating resistance delaying measures

Biological Reactive Intermediates III James J. Kocsis, David J. Jollow, Charlotte M. Witmer, Judd O. Nelson, Robert R. Snyder, 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 chemically 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

Biological Reactive Intermediates—II Robert Snyder, 2014-11-14

Cytochrome P450 John B. Schenkman, Helmut Greim, 2013-03-08 In this book the editors have brought together the widest group of investigators of the cytochrome P450 superfamily in order to present complete and right up to date coverage of this important enzyme system The authors describe and analyze the components of the enzyme system the reaction mechanisms involved and the evolution and nomenclature of this superfamily of enzymes They also describe the hepatic microsomal enzyme in a large number of species from mammalian to birds and fish to plants and unicellular organisms The different P450 forms in different tissues of the mammalian system are also treated Regulatory factors of P450 expression receive considerable attention as do studies on the mechanism of interaction of the microsomal monooxygenase system components Of particular interest to the reader are for the first time a compilation of chapters dedicated to forms of cytochrome P450 involved in steroid hormone biosynthesis This volume presents the most complete survey of the cytochrome P450 field It will allow recognition and understanding of the very wide implications this enzyme system has on life processes

Carcinogenesis Abstracts, 1977

N-Oxidation of Drugs P. Hlavica, L.A. Damani, 2012-12-06

Materials Synthesis and Characterization Dale L. Perry, 2013-06-29 One area of science that has shown an explosive growth over the last few decades is materials science Inherently by nature products of both basic and applied research materials make possible life and society as we know it today Materials ranging

from ceramics to semiconductors to composites are such that new ones must not only be designed and made they must also be characterized in terms of their physical chemical and mechanical properties Thus many new state of the art techniques involving spectroscopy microscopy and other approaches are now routinely used Modern materials have wide applications in many sectors of technology Films for example constitute an enormous area of materials and are used extensively Films in turn can be integrated with other systems such as superconducting metal oxides and organic superconductors Additionally ceramics can also be synthesized and fabricated as films for different applications Catalysts too can vary widely in both composition and form The number of applications for catalysts in industry must easily rank as one of the highest number of applications for any class of materials Catalysis is important for a wide range of activities in industry from petroleum refining to the synthesis of a large number of industrial feedstock materials Researchers in this area of materials are constantly trying to unravel new approaches to making better catalysts

Drinking Water and Health, National Research Council, Division on Earth and Life Studies, Commission on Life Sciences, Board on Toxicology and Environmental Health Hazards, Safe Drinking Water Committee, 1986-02-01 The most recent volume in the Drinking Water and Health series contains the results of a two part study on the toxicity of drinking water contaminants The first part examines current practices in risk assessment identifies new noncancerous toxic responses to chemicals found in drinking water and discusses the use of pharmacokinetic data to estimate the delivered dose and response The second part of the book provides risk assessments for 14 specific compounds 9 presented here for the first time

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