

Basic and Clinical Toxicology of Organophosphorus Compounds



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Basic And Clinical Toxicology Of Organophosphorus Compounds

Robert Krieger



Basic And Clinical Toxicology Of Organophosphorus Compounds:

Basic and Clinical Toxicology of Organophosphorus Compounds Mahdi Balali-Mood, Mohammad Abdollahi, 2013-12-19

This book explains the chemistry of Organophosphorus compounds OPs their mechanism of toxicity and the history of OPs from their initial discovery to the development of new compounds such as Novichoks It details the harmful effects to human health both as a result of acute and chronic OP exposure and the necessary clinical management of affected patients to reduce their toxic side effects The book also explains the detrimental effect that OPs have had on the environment and the efforts being made to prevent this in the future Finally the book looks at the incidents where OPs have been used as chemical warfare agents Basic and Clinical Toxicology of Organophosphorus Compounds aims to act as a comprehensive guide to all aspects of OPs and is a key resource for clinical toxicologists and related health professionals involved in the prevention diagnosis and clinical management of OP patients toxicologists and other scientists involved in research on OPs including regulatory issues and postgraduate students in Toxicology and related fields

Information Resources in Toxicology, Volume 2: The Global Arena ,2020-05-15 This new fifth edition of Information Resources in Toxicology offers a consolidated entry portal for the study research and practice of toxicology Both volumes represents a unique wide ranging curated international annotated bibliography and directory of major resources in toxicology and allied fields such as environmental and occupational health chemical safety and risk assessment The editors and authors are among the leaders of the profession sharing their cumulative wisdom in toxicology s subdisciplines This edition keeps pace with the digital world in directing and linking readers to relevant websites and other online tools Due to the increasing size of the hardcopy publication the current edition has been divided into two volumes to make it easier to handle and consult Volume 1 Background Resources and Tools arranged in 5 parts begins with chapters on the science of toxicology its history and informatics framework in Part 1 Part 2 continues with chapters organized by more specific subject such as cancer clinical toxicology genetic toxicology etc The categorization of chapters by resource format for example journals and newsletters technical reports organizations constitutes Part 3 Part 4 further considers toxicology s presence via the Internet databases and software tools Among the miscellaneous topics in the concluding Part 5 are laws and regulations professional education grants and funding and patents Volume 2 The Global Arena offers contributed chapters focusing on the toxicology contributions of over 40 countries followed by a glossary of toxicological terms and an appendix of popular quotations related to the field The book offered in both print and electronic formats is carefully structured indexed and cross referenced to enable users to easily find answers to their questions or serendipitously locate useful knowledge they were not originally aware they needed Among the many timely topics receiving increased emphasis are disaster preparedness nanotechnology omics risk assessment societal implications such as ethics and the precautionary principle climate change and children s environmental health Opens with an overview of the international toxicology scene organizations and activities involved with

both the science and regulatory framework and a specific look at the European Union's efforts. Offers an extensive collection of chapters covering over 40 countries and their toxicological infrastructure which includes listings of major books and journals, organizations, professional societies, universities, poison control centers, legislation, and online databases. Provides the Second Edition of the International Union of Pure and Applied Chemistry's Glossary of Terms Used in Toxicology, a carefully constructed and peer-reviewed collation of critical terms in the science. Concludes with a potpourri of quotes concerning toxicology and their use in the arts and popular culture. Paired with Volume One which offers chapters on a host of toxicology sub-disciplines, this set offers the most comprehensive compendium of print, digital, and organizational resources in the toxicological sciences with over 120 chapters, contributions by experts and leaders in the field. **Chemical Warfare**

Toxicology Franz Worek, John Jenner, Horst Thiermann, 2016-05-06. Despite ongoing efforts to prohibit the production, storage, and use of chemical warfare agents, recent world events highlight the enduring threat to the population from these agents. Research efforts in various countries have resulted in novel insights into chemical warfare toxicology that has enabled the development of new approaches for the diagnosis and treatment of chemical warfare poisoning. This book provides an up-to-date treatise on the diagnosis and verification of exposure and the pre and post exposure treatment of poisoning. Focussing on the most important representative nerve and blistering agents whilst also covering other potential chemical warfare agents, this book will give the reader a comprehensive overview of the many different aspects of chemical warfare agent toxicology. The text will appeal to toxicologists, biochemists, and weapons specialists working in industry and academia, and anyone with an interest in chemical warfare toxicology or exposure. **Textbook of Critical Care** Yatin Mehta, 2015-08-31.

Textbook of Critical Care is an extensive two-volume guide to all aspects of critical care. The first volume covers systems of the human body in individual sections; the second volume continues to cover other vital topics for those working in an intensive care unit. The two volumes are subdivided into fourteen sections with 112 chapters in total. The book begins with general principles before covering cardiovascular, respiratory, renal, and gastrointestinal systems, as well as neurology and endocrinology. The post-surgical critical care section includes a range of surgeries and organ transplants. Further topics include obstetric critical care, haematology, rheumatology, oncology, and trauma, with detailed advice on the design of and research in the ICU. With over 100 international contributors ensuring authoritative content throughout and full-colour illustrations across 1500 pages, **Textbook of Critical Care** is a valuable resource for residents, intensivists, and emergency medicine doctors. **Key Points** Extensive two-volume guide to all aspects of critical care. Covers different systems of the human body in detail in separate sections. Full-colour illustrations across 1500 pages. Over 100 international contributors.

Toxicology of Organophosphate and Carbamate Compounds Ramesh C Gupta, 2011-04-28. This text reference book provides the most comprehensive coverage of anticholinesterase compounds, Organophosphates and Carbamates, which constitute the largest number of chemicals that are primarily used as insecticides in agriculture, industry, and around the

home garden Some OPs nerve agents have been used in chemical warfare and terrorist attacks while some OPs and CMs have been recommended as therapeutic agents in human medicine as well as in veterinary medicine Many chemicals of both classes are extremely toxic and lack selectivity thus their inadvertent accidental use continues to pose a threat to human and animal health aquatic systems and wildlife These anticholinesterase agents produce a variety of toxicological effects in target and nontarget organs In light of this complexity this multi authored book is written by the well known scientists from many countries The book is organized into nine sections with a total of 49 chapters to provide in depth knowledge on various aspects of OP and CM compounds including their use classification mechanism based toxicity and prophylactic and therapeutic measurements Several chapters are written with special emphasis to cover timely topics such as chemical warfare agents physiologically based pharmacokinetic modeling structure and function of cholinesterases paraoxonase carboxylesterases developmental neurotoxicity the intermediate syndrome oxidative stress endocrine disruption and DNA damage gene expression and carcinogenesis Section VI with 5 chapters is specifically devoted to risk assessment and safety and regulatory guidelines for pesticides Describes everything you need to know about Organophosphates and Carbamates Extensively covers pesticides nerve agents therapeutic drugs and flame retardants Describes epidemiology of the world s major disasters involving Organophosphates and Carbamates Covers animal human aquatic and wildlife toxicity of Anticholinesterases Insights into in depth cholinergic and noncholinergic mechanisms of toxicity Describes recent advancements in cholinesterases paraoxonases carboxylesterases oxidative stress endocrine disruption cardiac and pulmonary toxicity and carcinogenesis Provides in vitro and in vivo models for neurotoxicity testing Integrates knowledge of studies in lab animals and humans Offers risk safety assessment and national international guidelines for permissible levels of pesticide residues Describes management of Anticholinesterase poisoning in humans

Microbial Metabolism of Xenobiotic Compounds Pankaj Kumar Arora,2019-06-27 Xenobiotic compounds including pesticides nitrophenols pyridine polycyclic aromatic compounds and polychlorinated biphenyls are widely spread in environment due to anthropogenic activities Most of them are highly toxic to living beings due to their mutagenic and carcinogenic properties Therefore the removal of these compounds from environment is an essential step for environmental sustainability Microbial remediation has emerged as an effective technology for degradation of these xenobiotic compounds as microorganisms have unique ability to utilize these compounds as their sole source of carbon and energy The primary goal of this book is to provide detailed information of microbial degradation of many xenobiotic compounds in various microorganisms

Poisoning Ntambwe Malangu,2017-12-20 This book which is the result of contributions from a team of international authors presents a collection of materials that can be categorized into two groups The first group of papers deals with clinical toxicology topics including poisoning by anticoagulant rodenticides food toxins carbon monoxide the toxicity of beta lactam antibiotics acute neonicotinoid poisoning occupational risk factors for acute pesticide poisoning activating carbon fibers and date pits for use

in liver toxin adsorption The second group of papers deals with forensic or analytical toxicology topics such as simplified methods for the analysis of gaseous toxic agents rapid methods for the analysis and monitoring of pathogens in drinking water and water based solutions as well as the linkages between clinical and forensic toxicology Each chapter presents new information on the topic discussed based on authors experience while summarizing existing knowledge As such this book will be a good teaching aid and can be a prescribed or recommended reading for postgraduate students and professionals in the fields of public health medicine pharmacy nursing biology toxicology and forensic sciences

Sustainable Management of Potato Pests and Diseases Swarup Kumar Chakrabarti, Sanjeev Sharma, Mohd Abas Shah, 2022-03-16 This book covers the important diseases and pests of potato which are of global significance The pests and diseases in potato lead to huge economic losses by reducing the yield and quality of the produce This book describes major pests and diseases in detail with particular emphasis on the latest developments with respect to their biology ecology and management It highlights the importance of virus infection for seed potato production and diagnostic symptoms along with management guidelines The book brings forth tips for judicious use of pesticides for sustainable potato production and management of pesticide resistance Use of novel approaches such as RNA interference genome editing and other genomic resources for drug designing in diseases and pest management is also emphasized in the book This book is of interest to teachers researchers extension workers potato growers and policy makers Also the book serves as additional reading material for undergraduate and graduate students of agriculture and plant pathology National and international agricultural scientists and policy makers will also find this to be a useful read

Microbial Ecology of Wastewater Treatment Plants Maulin P. Shah, Susana Rodriguez-Couto, 2021-05-15 Microbial Ecology of Wastewater Treatment Plants presents different methods and techniques used in microbial ecology to study the interactions and evolution of microbial populations in WWTPs particularly the new molecular tools developed in the last decades These molecular biology based methods e g studies of DNA RNA and proteins provide a high resolution of information compared to traditional ways of studying microbial wastewater populations such as microscopic examination and culture based methods In addition this book addresses the ability of microorganisms to degrade environmental pollutants Describes application of different Omics tools in Wastewater treatment plants WWTPs

Demonstrates the role of microorganisms in WWTPs Includes discussions on the microbial ecology of WWTPs Covers the microbial diversity of activated sludge Emphasizes cutting edge molecular tools

Microbes Based Approaches for the Management of Hazardous Contaminants Ajay Kumar, Livleen Shukla, Joginder Singh, Luiz Fernando Romanholo Ferreira, 2024-07-08 Learn the various microbiological aspects one deals with in environment management and the remediation of toxic contaminants in the environment In recent years the accumulation of hazardous contaminants has caused a broad based deterioration in global environmental quality These have had wide ranging negative social impacts affecting climate soil and water ecosystems and more As traditional methods of contaminant mitigation have proven

inadequate to the task microbial based remediation offers the clearest most environmentally friendly path forward for this crucial aspect of global environmental stewardship Microbes Based Approaches for the Management of Hazardous Contaminants offers comprehensive coverage of novel and indigenous microbes and their applications in contaminant mitigation Surveying all the major microbial products and methods for degrading and remediating hazardous pollutants it offers a key tool in the fight against global environmental degradation The result is a cutting edge introduction to an essential subject Microbes Based Approaches for the Management of Hazardous Contaminants will also find Current and future approaches to microbial degradation Detailed discussion of biofilms exopolysaccharides enzymes metabolites and many more Coverage of metabolic engineering as an alternative strategy Microbes Based Approaches for the Management of Hazardous Contaminants is ideal for those working in the field for the application of microbes in the remediation of hazardous pollutants and environment management particularly those interested in environmental sciences microbiology and microbial technology environmental biotechnology and molecular biology

Chemical Warfare Agents Timothy T. Marrs, Robert L. Maynard, Frederick Sidell, 2007-04-04 *Chemical Warfare Agents* Second Edition has been totally revised since the successful first edition and expanded to about three times the length with many new chapters and much more in depth consideration of all the topics The chapters have been written by distinguished international experts in various aspects of chemical warfare agents and edited by an experienced team to produce a clear review of the field The book now contains a wealth of material on the mechanisms of action of the major chemical warfare agents including the nerve agent cyclosarin formally considered to be of secondary importance as well as ricin and abrin *Chemical Warfare Agents* Second Edition discusses the physico chemical properties of chemical warfare agents their dispersion and fate in the environment their toxicology and management of their effects on humans decontamination and protective equipment New chapters cover the experience gained after the use of sarin to attack travellers on the Tokyo subway and how to deal with the outcome of the deployment of riot control agents such as CS gas This book provides a comprehensive review of chemical warfare agents assessing all available evidence regarding the medical technical and legal aspects of their use It is an invaluable reference work for physicians public health planners regulators and any other professionals involved in this field Review of the First Edition What more appropriate time for a title of this scope than in the post 9 11 era a timely scholarly and well written volume which offers much information of immense current and future benefit

VETERINARY AND HUMAN TOXICOLOGY

Sensing of Deadly Toxic Chemical Warfare Agents, Nerve Agent Simulants, and their Toxicological Aspects

Sangita Das, Sabu Thomas, Partha Pratim Das, 2022-09-16 *Sensing of Deadly Toxic Chemical Warfare Agents Nerve Agent Simulants and their Toxicological Aspects* provides a general overview of the development and performance of different novel molecular frameworks as potent vehicles for sensing Chemical Weapons CWs The chapters are contributed by leading researchers in the areas of materials science medical science chemical science and nanotechnology from industries

academics government and private research institutions across the globe It covers cover topics such as inorganic nanocomposites hyperbranched polymers and graphene heterojunctions for effective sensing of CW agents This book is a highly valuable reference source for graduates post graduates and research scholars primarily in the fields of materials science medicinal chemistry organic chemistry and nanoscience and nanotechnology In addition almost all analytical techniques will be discussed making this a first rate reference for professors students and scientists in many industries Provides an efficient reliable and highly versatile approach for the synthesis of different molecular systems suitable for diversity oriented strategies structure activity studies and molecular tailoring for the sensing of chemical warfare agents Goes into depth on new binary organogels discrete carbon nanomaterials CNMs and molecularly imprinted polymers MIPs and has endowed electrochemical chemosensors ECCSs with high selectivity and sensitivity towards the detection of chemical warfare agent Highlights in detail the detection of CWs by composite optical waveguide sensors and describes disposable biofilm biosensors for sensitive detection of biotoxicity in water with treatment of nerve agent poisoning

Recent Developments in Applied Microbiology and Biochemistry Viswanath Buddolla,2020-10-15 Recent Developments in Applied Microbiology and Biochemistry Vol 2 provides a comprehensive treatment and understanding on application oriented microbial concepts giving readers insights into recent developments in microbial biotechnology and medical agricultural and environmental microbiology Discusses microbial proteome analyses and their importance in medical microbiology Explores emerging trends in the prevention of current global health problems such as cancer obesity and immunity Shows recent approaches in the production of novel enzymes from environmental samples by enrichment culture and metagenomics approaches Guides readers through the status and recent developments in analytical methods for the detection of foodborne microorganisms

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

Handbook of Pesticide Toxicology Robert Krieger, 2001-10-17 This revision of the highly acclaimed Hayes Handbook of Pesticide Toxicology is an in depth scientific sourcebook concerning use properties effects and regulation of pesticides This edition is a comprehensive examination by international experts from academia government research and the private sector of critical issues related to the need use and nature of chemicals used in modern pest management This two volume set contains up to date information on a broad range of topics which establishes context of pesticide use and outlines how they are scientifically evaluated Experts from a variety of disciplines contribute to this work Some provide a fresh look at existing information and others look ahead at issues that are central to understanding pesticide use and toxicology in modern integrated pest management Establishes a context for evaluation of pesticide use in agriculture residential pest control and public health described Important discussion of strategies for pesticide risk assessment All major classes of pesticide considered Different routes of exposure critically evaluated Current regulatory issues defined Emerging issues concern topics of special relevance in the future Agents reviewed by experts from academia government research and the private sector

Essentials of Pediatric Emergency Medicine Dr. Rahim Valani, 2018-09-12 Provide the best care for young patients with this essential reference Sharpen your practice with a guided approach to pathophysiology history taking physical examinations diagnostic imaging differential diagnoses and treatment options Keep a comprehensive review of common pediatric emergencies at your fingertips Find what you need quickly and easily in clear bulleted points Sharpen your readiness for board exams with this valuable supplemental resource This high yield resource provides residents and physicians with a powerful tool to help diagnose and treat the most common pediatric emergencies Whether you re a clinician staying current with the latest information or a resident studying for your board exams *Essentials of Pediatric Emergency Medicine* will help you stay on top of your field Sections include General Assessment and Management Acute Presentations Cardiac Emergencies Neurologic Emergencies Respiratory Emergencies Musculoskeletal Emergencies Endocrine Emergencies Hematology Oncology Emergencies Rheumatological Emergencies Infectious Disease Emergencies Ophthalmology Emergencies Dermatology Emergencies Otorhinolaryngology Emergencies Gastrointestinal Emergencies Neonatal Emergencies Genitourinary Emergencies Renal Emergencies Trauma Toxicology and Environmental Emergencies

Organophosphates And Health Stanley Feldman, John A Henry, Lakshman Karalliedde, Timothy Marrs, 2001-07-24 Few chemical compounds created by man have caused greater controversy than organophosphates Conceived as insecticides they have also been developed to become the most feared of chemical weapons The control of vectors of diseases from which millions die or are disabled is heavily dependent on organophosphates as are efforts to maintain food production in the face of uncontrolled population growth diminishing arable land and the possibility of global warming As the toxicity of organophosphates is non specific it has caused ill health and death in man and has contributed to adverse ecological effects This book written by recognised experts studies and presents information in a manner that basic scientists medical personnel

environmentalists agriculturists and those in public health and occupational medicine will find essential when considering the use of organophosphates in their disciplines The text primarily covers health aspects with discussions on related social economic environmental and agricultural issues that concern all inhabitants of the global village **Research Awards Index , Handbook of Toxicology of Chemical Warfare Agents** Ramesh C Gupta,2015-01-21 Handbook of Toxicology of Chemical Warfare Agents Second Edition covers every aspect of deadly toxic chemicals used in conflicts warfare and terrorism Including findings from experimental as well as clinical studies this essential reference offers in depth coverage of individual toxicants target organ toxicity major incidents toxic effects in humans animals and wildlife biosensors and biomarkers on site and laboratory analytical methods decontamination and detoxification procedures and countermeasures Expanding on the ground breaking first edition Handbook of Toxicology of Chemical Warfare Agents has been completely updated presenting the most recent advances in field Brand new chapters include a case study of the Iran Iraq war an overview of chemical weapons of mass destruction explosives Ricin the human respiratory system alternative testing methods brain injuries and more Unites world leading experts to bring you cutting edge agent specific information on Chemical Warfare Agents CWA and their adverse effects on human and animal health and the environment Provides you with all the information you need on CWA modes of action detection prevention therapeutic treatment and countermeasures New to this edition a full update to reflect the most recent advances in the field and new chapters on emergency preparedness the chemical warfare agents used in Syria and the use of the Novichok agent in the UK *A Handbook of Environmental Toxicology* J.P.F. D'Mello,2019-12-04 Written by an international team of authors from a range of educational medical and research establishments this book is an essential reference for advanced students and researchers in the areas of environmental sciences ecology agriculture environmental health and medicine in addition to industry and government personnel responsible for environmental regulations and directives A Handbook of Environmental Toxicology focuses on two key aspects human disorders and ecotoxicology as affected by major toxins originating from biological sources and pollutants as well as radiation generated spontaneously or as a result of anthropogenic activity A diverse array of these potentially harmful agents regularly appear in the atmosphere soil water and food compromising both human health and biodiversity in natural and managed ecosystems

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
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