

Algal Toxins In Seafood And Drinking Water

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Foodborne Diseases - Dean O. Cliver 2002-11

Publisher Description

Freshwater Algal Toxins - Angeles Jos 2020-12-11

Cyanobacterial abundance has increased disproportionately, and this trend is likely to continue in the coming decades. This increase not only has deleterious effects on ecosystem biodiversity but also adversely affects drinking water supplies, livestock watering, crop yields, aquaculture, etc. Thus, the proliferation of cyanobacterial blooms presents human and animal health risks due to the common production of potent toxins, cyanotoxins. Moreover, these risks are aggravated by the accumulation potential of cyanotoxins and their transference to the food chain. In spite of the worldwide increasing occurrence of cyanotoxins, they are still underestimated in regulations. However, risk management of cyanotoxins is only possible after a thorough risk evaluation, and for that purpose, toxicity and exposure data are required. Thus, occurrence and monitoring information is of key importance, and new data in relation to the conditions that favor cyanobacterial growth and cyanotoxin production are welcome in order to prevent their appearance. On the other hand, in regard to toxicity, there are still many data gaps to fill. This book compiles 10 research papers and a review, which provide valuable contributions on all these aspects and demonstrate the importance of cyanobacteria toxins research.

[Microbial Contamination and Food Degradation](#) - Alexandru Mihai Grumezescu 2017-11-03

Microbial Contamination and Food Degradation, Volume 10 in the Handbook of Food Bioengineering series, provides an understanding of the most common microbial agents involved in food contamination and spoilage, and highlights the main detection techniques to help pinpoint the cause of contamination. Microorganisms may cause health-threatening conditions directly by being ingested together with contaminated food, or indirectly by producing harmful toxins and factors that can cause food borne illness. This resource discusses the potential sources of contamination, the latest advances in contamination research and strategies to prevent contamination using key methods of analysis and evaluation. Presents modern alternatives for avoiding microbial spoilage and food degradation using preventative and intervention technologies Provides key methods for addressing microbial contamination and preventing food borne illness through research and risk assessment analysis Includes detailed information on bacterial contamination problems in different environmental environments and the methodologies to help solve those problems

Food Toxicology - William Helferich 2000-08-23

New data continually indicate that antioxidants may contribute to reductions in cancer risks and that chronic consumption of low levels of

chemical carcinogens in our diet may contribute to an increased risk of developing specific types of cancers. Research also shows that in America today, the leading causes of death are cancer and heart disease. Considering that diet plays a significant role in the development of both of these diseases, issues of food toxicology become particularly topical. *Climate Change and Human Health* - 2001

Quality and Treatment of Drinking Water II - Jiri Hrubec 2013-06-05
Drinking water quality is a vast and complex subject. In addition to the topics already addressed in Volume 5, part B of this Handbook in 1995, this new volume discusses in an authoritative way the current key issues of drinking water quality and its control: - Toxicity tests for assessing drinking water quality - Toxicological approaches for developing drinking water standards - Analysis of organic micropollutants - Algal toxins and human health - Quality changes due to application of ozone and chlorine dioxide. The articles are written by leading experts and present the state of the art of drinking water research. This volume will therefore be a valuable source not only for scientists and engineers, but also for decision-makers in government, environmental control and industry.

Harmful Algal Blooms - Sandra E. Shumway 2018-08-06
Harmful Algal Blooms: A Compendium Desk Reference provides basic information on harmful algal blooms (HAB) and references for individuals in need of technical information when faced with unexpected or unknown harmful algal events. Chapters in this volume will provide readers with information on causes of HAB, successful management and monitoring programs, control, prevention, and mitigation strategies, economic consequences of HAB, associated risks to human health, impacts of HAB on food webs and ecosystems, and detailed information on the most common HAB species. Harmful Algal Blooms: A Compendium Desk Reference will be an invaluable resource to managers, newcomers to the field, those who do not have easy or affordable access to scientific literature, and individuals who simply do not know where to begin searching for the information needed, especially when faced with novel and unexpected HAB events. Edited by three of the world's leading

harmful algal bloom researchers and with contributions from leading experts, Harmful Algal Blooms: A Compendium Desk Reference will be a key source of information for this increasingly important topic.

Handbook of Food Toxicology - S.S. Deshpande 2002-08-29
From health and economic consequences to exposure assessment and detoxification, this reference comprehensively covers the formation, characteristics, and control of various toxins that occur in the production, storage, handling, and preparation of food. The author discusses toxin sources, mechanisms, routes of exposure and absorption, and their chemical and biochemical components to prevent contamination of food products and reduce epidemics of foodborne disease. The book contains more than 3000 references to facilitate further research, as well as recent guidelines from the FDA and World Health Organization regarding food hygiene and safety.

Seafood and Freshwater Toxins - Luis M. Botana 2014-03-12
The last few years have brought about many changes in the field of marine and freshwater toxins, with advances in analytical technology and the realization that these toxins are a global issue. Offering a complete reference guide, *Seafood and Freshwater Toxins: Pharmacology, Physiology, and Detection*, Third Edition addresses all aspects of the social and scientific influence of phytotoxins, from legislation and monitoring to new drug development. Covering many new topics, the book examines three main aspects: monitoring of toxins; chemical, mechanistic, and toxicological diversity; and detection technologies. New to this edition: 35 new chapters and 5 updated chapters A focus on state-of-the-art methodology Coverage of new technologies to cultivate algae and to identify, isolate, and quantify toxins Regulatory changes Climate change evidence Expanded information on toxicology Part I of the book includes an overview and reviews general issues related to toxin detection, ecology, and diversity, and effects of climate change. Part II covers impacts of toxins regarding epidemiology, toxicology, economics, and surveillance. Part III explores available detection technologies, such as functional assays, biosensors, mass spectrometry, nanotechnology, and more. In addition, standard reference materials for toxins are

discussed. Parts IV to VI provide detailed descriptions of toxin chemical diversity, biological sources, and modes of action. Part VII addresses the use of toxins as starting points for therapeutic drugs for cancer, neurological disorders, and for novel antibiotics.

Environmental Health Perspectives - 1993

Cyanobacterial (blue-green Algal) Toxins - Richard Scott Yoo 1995

Guidelines for Safe Recreational Water Environments: Coastal and fresh waters - World Health Organization 2003

The new guidelines are meant to protect public health, help evaluate development projects near freshwater and recreational sites and assess potential health aspects of recreational projects.

Opportunities for Environmental Applications of Marine Biotechnology - National Research Council 2000-11-30

This 2-day workshop is the culmination of a study of the status and future of marine biotechnology. The overall goal of this workshop is to examine what was initially called "Opportunities for Marine Biotechnology in the United States," to consider where we are now in this field of "Environmental Marine Biotechnology," to envision the field in the future, and to discuss any impediments that might be encountered along the way. Opportunities for Environmental Applications of Marine Biotechnology: Proceedings of the October 5-6, 1999, Workshop addresses the question of where the federal government should invest its limited funds and what future initiatives should be planned.

The Phototrophic Prokaryotes - Günter A. Peschek 2012-12-06
Proceedings of the Ninth International Symposium held in Vienna, Austria, September 6-12, 1997

Foodborne Diseases - Christine ER Dodd 2017-02-13

Foodborne Diseases, Third Edition, covers the ever-changing complex issues that have emerged in the food industry over the past decade. This exceptional volume continues to offer broad coverage that provides a foundation for a practical understanding of diseases and to help researchers and scientists manage foodborne illnesses and prevent and

control outbreaks. It explains recent scientific and industry developments to improve awareness, education, and communication surrounding foodborne disease and food safety. *Foodborne Diseases*, Third Edition, is a comprehensive update with strong new topics of concern from the past decade. Topics include bacterial, fungal, parasitic, and viral foodborne diseases (including disease mechanism and genetics where appropriate), chemical toxicants (including natural intoxicants and bio-toxins), risk-based control measures, and virulence factors of microbial pathogens that cause disease, as well as epigenetics and foodborne pathogens. Other new topics include nanotechnology, bioterrorism and the use of foodborne pathogens, antimicrobial resistance, antibiotic resistance, and more. Presents principles in disease processes in foodborne illness Includes hot-topic discussions such as the impact of nanotechnology on food safety Provides in-depth description of our current understanding of the infectious and toxic pathogens associated with food Presents cutting-edge research on epigenetics, antimicrobial resistance, and intervention technologies

Conservation Medicine - A. Alonso Aguirre 2002

Conservation medicine is an emerging discipline, focussing on the intersection of ecosystem health, animal health, and human health. Work in the biomedical and veterinary sciences is now being folded into conservation biology; to explore the connections between animal and human health; trace the environmental sources of pathogens and pollutants; develop an understanding of the ecological causes of changes in human and animal health; and understand the consequences of diseases to populations and ecological communities. Conservation Medicine defines this new discipline. It examines ecological health issues from various standpoints, including the emergence and resurgence of infectious disease agents; the increasing impacts of toxic chemicals and hazardous substances; and the health implications of habitat fragmentation and degradation and loss of biodiversity. It will provide a framework to examine the connections between the health of the planet and the health of all species and challenge practitioners and students in the health sciences and natural sciences to think about new,

collaborative ways to address ecological health concerns.

Cyanotoxins - Ingrid Chorus 2012-12-06

Toxic cyanobacteria are increasingly recognised as a potential hazard in water for human use. The recent availability of methods for quantitative screening is leading to a surge of research on their occurrence. This book presents a novel compilation of extensive screening results showing the cyanotoxin levels that may be expected when certain taxa dominate. These results indicate cyanotoxins to be the most widespread among the chemicals of concern in water used for drinking and recreation. It further combines field data with results from laboratory culture experiments to suggest a unifying view of how environmental factors control the cyanotoxin levels in natural waters. A practical section is dedicated to the exposure of humans through drinking-water and recreation.

Global Climate Change and Human Health - Jay Lemery 2021-05-11

Learn more about the impact of global warming and climate change on human health and disease The Second Edition of Global Climate Change and Human Health delivers an accessible and comprehensive exploration of the rapidly accelerating and increasingly ubiquitous effects of climate change and global warming on human health and disease. The distinguished and accomplished authors discuss the health impacts of the economic, climatological, and geopolitical effects of global warming. You'll learn about: The effect of extreme weather events on public health and the effects of changing meteorological conditions on human health How changes in hydrology impact the spread of waterborne disease and noninfectious waterborne threats Adaptation to, and the mitigation and governance of, climate change, including international perspectives on climate change adaptation Perfect for students of public health, medicine, nursing, and pharmacy, Global Climate Change and Human Health, Second Edition is an invaluable resource for anyone with an interest in the intersection of climate and human health and disease.

Animal Toxins - Herve Rochat 2013-12-01

This manual surveys toxins from insects, spiders, mollusks, fish, and snakes which have biotechnological applications. It reviews aspects of toxin origin, their molecular mechanism, and their cellular and

pathogenic effects. It also provides methodology for the application of these toxins in the research laboratory. This includes a description of the extraction methods, biochemical characterization, and applications in pharmacological studies.

Physiology of Fish in Intensive Culture Systems - Gary A. Wedemeyer 2012-12-06

Fish culture in hatcheries and other aquacultural facilities is becoming much more intensive all over the world. The success of all kinds of fish rearing depends on the quality of management and this depends, in turn, on understanding the biology of fishes and the aquatic environment in which they live. This book directly addresses the relationship between the aquatic environment and the fishes. An understanding of this by the reader will result in a reduction of disease outbreaks through improved management.

Handbook of Microalgal Culture - Amos Richmond 2008-04-15

Handbook of Microalgal Culture is truly a landmark publication, drawing on some 50 years of worldwide experience in microalgal mass culture. This important book comprises comprehensive reviews of the current available information on microalgal culture, written by 40 contributing authors from around the globe. The book is divided into four parts, with Part I detailing biological and environmental aspects of microalgae with reference to microalgal biotechnology and Part II looking in depth at major theories and techniques of mass cultivation. Part III comprises chapters on the economic applications of microalgae, including coverage of industrial production, the use of microalgae in human and animal nutrition and in aquaculture, in nitrogen fixation, hydrogen and methane production, and in bioremediation of polluted water. Finally, Part IV looks at new frontiers and includes chapters on genetic engineering, microalgae as platforms for recombinant proteins, bioactive chemicals, heterotrophic production, microalgae as gene-delivery systems for expressing mosquito-cidal toxins and the enhancement of marine productivity for climate stabilization and food security. Handbook of Microalgal Culture is an essential purchase for all phycologists and also those researching aquatic

systems, aquaculture and plant sciences. There is also much of great use to researchers and those involved in product formulation within pharmaceutical, nutrition and food companies. Libraries in all universities and research establishments teaching and researching in chemistry, biological and pharmaceutical sciences, food sciences and nutrition, and aquaculture will need copies of this book on their shelves. Amos Richmond is at the Blaustein Institute for Desert Research, Ben-Gurion University of the Negev, Israel.

Inactivation of Algal Toxins by Free Chlorine in Drinking Water Treatment - Benjamin A. Zeier 2002

Algal Toxins in Seafood and Drinking Water - Ian R. Falconer 2012-12-02
Red tides in the sea and bright green lakes and rivers are becoming features of our degraded world environment. These events, caused by algae and the toxins they produce, are often associated with poisoning of people or livestock resulting in injury to health and economic loss. This volume provides definitive information on the identification of toxin marine and freshwater algae, the routine analysis and effects of algal toxins, their veterinary and public health impact, and on control measures in current use. Professionals in the food and water industry, and those working in public health and environmental ecology will find this book extremely useful.

Environmental Health - Michael A. McGeehin 2001

Coastal Pollution - Carl J. Sindermann 2005-12-20

In 1996, after more than a decade of researching the effects of over-population and the consequent pollution of the greater metropolitan New York City area, Carl Sindermann published his observations and conclusions in *Ocean Pollution: Effects on Living Resources and Humans*, a mostly technical document that emphasized the pathological effects of coastal pollution. The stressed species inhabiting the coastal waters of New York Bight had been the subject of several laboratory programs, which when integrated with ongoing pollution studies, provided a superb opportunity to assess the effects of human impact upon a fragile coastal

system. *Coastal Pollution: Effects on Living Resources and Humans* is a highly lucid expansion and revision of that earlier book that preserves some of the technical aspects and enlightening vignettes recorded in the original. Organized into three distinct sections this work- I. Recounts eight specific horror stories based mostly on the consequences of coastal pollution II. Surveys the effects of coastal pollution on resource species such as fish and shellfish and marine mammals III. Examines the effects of coastal pollution on humans Sindermann ends the work by drawing conclusions and offering predictions for the future. Reflecting back over his notable career and beyond, the author ventures back as far as the 1950s in an effort to make readers appreciate the long historical record that is often forgotten due to our focus on the here and now. "Science practiced without occasional genuflection to its history is too flat and featureless - intense but without depth - stimulating but lacking an important link with the past. We can do better." Intending to express insight that goes beyond the discussion of any one area, the author uses his experiences at the Sandy Hook laboratory as a lens to provide us with a poignant and well-documented understanding of the human impact on the inshore marine environment and its inhabitants, worldwide.

Marine Biotoxins - Hans P. Egmond 2004

This paper provides an extensive review of different aspects of five shellfish-poisoning syndromes (paralytic, diarrhoeic, amnesic, neurologic and azapiracid), as well as one fish-poisoning syndrome (ciguatera fish poisoning), and discusses in detail the causative toxins produced by marine organisms, chemical structures and analytical methods of the toxins, habitat and occurrence of the toxin-producing organisms, case studies and existing regulations. Based on this analysis, risk assessments are carried out for each of the toxins, and recommendations are elaborated to improve the management of these risks in order to reduce the harmful effect of these toxins on public health.

Toxins in Food - Waldemar M. Dabrowski 2004-11-15

While systems such as GMP and HACCP assure a high standard of food quality, foodborne poisonings still pose a serious hazard to the consumer's health. The lack of knowledge among some producers and

consumers regarding the risks and benefits related to food makes it imperative to provide updated information in order to improve food safety. To

Harmful Algal Blooms - Sandra E. Shumway 2018-05-21

Harmful Algal Blooms: A Compendium Desk Reference provides basic information on harmful algal blooms (HAB) and references for individuals in need of technical information when faced with unexpected or unknown harmful algal events. Chapters in this volume will provide readers with information on causes of HAB, successful management and monitoring programs, control, prevention, and mitigation strategies, economic consequences of HAB, associated risks to human health, impacts of HAB on food webs and ecosystems, and detailed information on the most common HAB species. Harmful Algal Blooms: A Compendium Desk Reference will be an invaluable resource to managers, newcomers to the field, those who do not have easy or affordable access to scientific literature, and individuals who simply do not know where to begin searching for the information needed, especially when faced with novel and unexpected HAB events. Edited by three of the world's leading harmful algal bloom researchers and with contributions from leading experts, Harmful Algal Blooms: A Compendium Desk Reference will be a key source of information for this increasingly important topic.

Bioactive Compounds in Foods - John Gilbert 2009-01-21

Inherent toxicants and processing contaminants are both non-essential, bioactive substances whose levels in foods can be difficult to control. This volume covers both types of compound for the first time, examining their beneficial as well as their undesirable effects in the human diet. Chapters have been written as individually comprehensive reviews, and topics have been selected to illustrate recent scientific advances in understanding of the occurrence and mechanism of formation, exposure/risk assessment and developments in the underpinning analytical methodology. A wide range of contaminants are examined in detail, including pyrrolizidine alkaloids, glucosinolates, phycotoxins, and mycotoxins. Several process contaminants (eg acrylamide and furan), which are relatively new but which have a rapidly growing literature, are also covered. The book

provides a practical reference for a wide range of experts: specialist toxicologists (chemists and food chemists), hygienists, government officials and anyone who needs to be aware of the main issues concerning toxicants and process contaminants in food. It will also be a valuable introduction to the subject for post-graduate students.

Handbook of Plant and Animal Toxins in Food - Gulzar Ahmad Nayik 2022-04-07

The prevalence of naturally occurring toxins in plant and animal foods represents one of the most significant food safety issues, drawing the attention of both scientists and regulators alike. This unexplored area related to food quality is indeed a big concern for consumers, various regulatory authorities, and food industries. Apart from essential nutrients, several food crops are capable of producing a vast array of nonnutritious secondary metabolic products. These toxins produced as secondary metabolites have the potential to exhibit both beneficial and deleterious effects in both human beings and animals. Nevertheless, there has been huge progress in agricultural practices and food processing technologies, but still the number of nonnutritive substances and naturally derived toxins persist in our diet. Handbook of Plant and Animal Toxins in Food: Occurrence, Toxicity, and Prevention, focuses on various selected toxins in foods derived from plants as well as animals. The prominent plant toxins include solanine and chaconine, mushroom toxins, phytates, tannins, oxalates, goitrogens, gossypol, phytohemagglutinins, erucic acid, saponins, cyanogenic glycosides, enzyme inhibitors, BOAA (lathyragens), toxic amino acids and toxic fatty acids. The prominent animal toxins covered in the book include various seafood toxins, shellfish toxins and biogenic amines. Key Features: Presents complete information about a plethora of toxins Provides quick and easy access to data on major plant and animal toxins Covers distribution of toxins in the plant and animal kingdom Provides comprehensive information on chemistry, safety and precautions of each toxin Commencing with a brief introduction of food toxins, this book is designed in such a way that the readers will be introduced to toxicity, safety and occurrence of each toxin selected. It also discusses the in-

depth detailed information on food poisoning and its prevention. The book will also shed light on foodborne illness associated with toxins. The primary audience for this work will be food scientists, food toxicologists, university scholars and college students. Furthermore, the book will be of immense help for public health officials, pharmacologists, and food safety officers who are involved with enforcing regulations meant to ensure the safety of a particular food

Oceans and Human Health - Patrick J. Walsh 2011-09-02

Oceans and Human Health highlights an unprecedented collaboration of environmental scientists, ecologists and physicians working together on this important new discipline, to the benefit of human health and ocean environmental integrity alike. Oceanography, toxicology, natural products chemistry, environmental microbiology, comparative animal physiology, epidemiology and public health are all long established areas of research in their own right and all contribute data and expertise to an integrated understanding of the ways in which ocean biology and chemistry affect human health for better or worse. This book introduces this topic to researchers and advanced students interested in this emerging field, enabling them to see how their research fits into the broader interactions between the aquatic environment and human health. Color illustrations of aquatic life and oceanic phenomena such as hurricanes and algal blooms Numerous case studies Socio-economic and Ethical Analyses place the science in a broader context Study questions for each chapter to assist students and instructors Risks and remedies sections to help define course modules for instruction

Applied Toxicology: Approaches Through Basic Science - Jürg P. Seiler 2011-09-16

Ultraviolet radiation, a component of sunlight, has been recognized by photobiologists, dermatologists, and ophthalmologists as a potential hazard for human health because of its genotoxic, carcinogenic and immunotoxic properties. Its effects on human health include the induction of skin cancers, ocular damage and impairment of immunity to certain infections. A few decennia ago it was demonstrated that UV photons can affect the activity of the immune system through interactions with the

skin. This means that UV not only changes normal cells into cancer cells but also permits the outgrowth of the UV-transformed cells by depressing the immune system. An intriguing question is what interactions between UV radiation and the skin initiates alterations in immune function in the exposed skin and systemically, i. e. in other places than the exposed skin. During the last 20 years many studies have been performed in order to investigate the immunosuppressive activities of UVB in laboratory animals and in human volunteers. In particular effects of UVB radiation on resistance to tumours and skin associated infections have been examined. In addition, effects of UVB radiation on immune parameters such as contact hypersensitivity and delayed-type hypersensitivity (both type IV hypersensitivity reactions), mixed lymphocyte reactions, mixed skin lymphocyte reactions, antigen presentation and numbers and function of Langerhans cells have been studied intensively. The antigenicity of murine tumours which are caused by UVB radiation was one of the first items to be investigated (Kripke, 1974).

Reviews of Environmental Contamination and Toxicology - George W. Ware 2013-03-09

Reviews of Environmental Contamination and Toxicology provides detailed review articles concerned with aspects of chemical contaminants, including pesticides, in the total environment with toxicological considerations and consequences.

Cyanobacterial Toxins of Drinking Water Supplies - Ian Robert Falconer 2004-12-20

The contamination of both drinking and recreational water supplies by cyanobacteria is increasingly a cause for concern worldwide. While contamination causes livestock deaths with relative frequency, acute poisoning is rare in humans. However, there is growing apprehension over the possible role of cylindrospermopsins and microcystins in gastrointest

Natural Toxicants in Food - Watson 1998-05-07

Natural Toxicants in Food covers areas of current interest related to naturally occurring toxicants found in food that are generated by a

variety of sources, including, plants, bacteria, algae, fungi, and animals.
Food Safety - J. P. Felix D'Mello 2003

Food safety is a concern for scientists, policy-makers and consumers especially as food poisoning outbreaks are becoming more common and as particular concerns arise over genetically modified foods. This book covers recent developments in the chemistry, biochemistry and physiological effects of toxicants that might have an impact on human health and welfare.

Haschek and Rousseaux's Handbook of Toxicologic Pathology -

Wanda M. Haschek 2013-05-01

Haschek and Rousseaux's Handbook of Toxicologic Pathology is a key reference on the integration of structure and functional changes in tissues associated with the response to pharmaceuticals, chemicals and biologics. The 3e has been expanded by a full volume, and covers aspects of safety assessment not discussed in the 2e. Completely revised with many new chapters, it remains the most authoritative reference on toxicologic pathology for scientists and researchers studying and making decisions on drugs, biologics, medical devices and other chemicals, including agrochemicals and environmental contaminants. New topics include safety assessment, the drug life cycle, risk assessment, communication and management, carcinogenicity assessment, pharmacology and pharmacokinetics, biomarkers in toxicologic pathology, quality assurance, peer review, agrochemicals, nanotechnology, food and toxicologic pathology, the environment and toxicologic pathology and more. Provides new chapters and in-depth discussion of timely topics in the area of toxicologic pathology and broadens the scope of the audience to include toxicologists and

pathologists working in a variety of settings Offers high-quality and trusted content in a multi-contributed work written by leading international authorities in all areas of toxicologic pathology Features hundreds of full color images in both the print and electronic versions of the book to highlight difficult concepts with clear illustrations

Journal of Afrotropical Zoology - 2004

The Journal of Afrotropical Zoology is devoted to the biology of animals living in the tropical part of Africa, including the islands with that climatic regime but excluding the area north of the Sahara

Climate Change and Marine and Freshwater Toxins - Luis M. Botana
2020-12-16

The increasingly widespread production of toxins by marine and freshwater microalgae raises serious concerns regarding seafood and drinking water safety. This book compiles studies on the influence of climate change on the spreading of toxin-producing species in aquatic systems. The chemistry and biology of toxin production is revised and an outlook on control and prevention of the toxins' impact on human and animal health is given.

Environmental Toxicology - Edward A. Laws 2012-12-12

Environmental Toxicology provides a detailed, comprehensive introduction to this key area of sustainability and public health research. The broad coverage includes sections on ecological risk assessment, monitoring, mechanisms, fate and transport, prevention, and correctives, as well as treatment of the health effects of solar radiation and toxicology in the ocean. The 23 state-of-the-art chapters provide a multi-disciplinary perspective on this vital area, which encompasses environmental science, biology, chemistry, and public health.