

Mechanistic Toxicology The Molecular Basis Of How Chemicals Disrupt Biological Targets

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Mechanistic Toxicology: The Molecular Basis of How Chemicals Disrupt Biological Targets, Second Edition retains the accessible format of the original to present the general principles that link xenobiotic-induced toxicity with the molecular pathways that underlie these toxic effects. Extensively illustrated, this book forms a conceptual bridge between multiple events at the molecular level and the determinants of toxicity at the physiological and cellular level.

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Mechanistic Toxicology: The Molecular Basis of How Chemicals Disrupt Biological Targets, Second Edition Only 2 left in stock. Reductionism to cellular and molecular mechanisms is one of the cornerstones of modern toxicology, forming the basis for a better understanding of individual toxic effects, and providing an important tool for human risk assessment.

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New aspects, major advances, and new areas in molecular and cellular biology and toxicology demand updated sources of information to elucidate the functional mechanics of human toxicology. "Mechanistic Toxicology: The Molecular Basis of How Chemicals Disrupt Biological Targets, Second Edition" retains the accessible format of the original to present the general principles that link xenobiotic-induced toxicity with the molecular pathways that underlie these toxic effects.

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Mechanistic Toxicology - Taylor & Francis
This programme provides students with a research-orientated training in the application of molecular and cell biology to develop an understanding of chemical toxicity at the cellular and molecular level. You will study within a lively, highly interactive teaching and research environment. One of the most rapidly developing areas of toxicology is the use of molecular, cell biology and omics to identify adverse outcome pathways (AOPs) and to develop a mechanistic understanding of chemical ...

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A thorough understanding of cellular and molecular mechanisms involved in the individual expression of toxic effects provides an important tool for assessment of human health risk. New aspects, major advances, and new areas in molecular and cellular biology and toxicology demand updated sources of information to elucidate the functional mechanics of human toxicology. Mechanistic Toxicology: The Molecular Basis of How Chemicals Disrupt Biological Targets, Second Edition retains the accessible format of the original to present the general principles that link xenobiotic-induced toxicity with the molecular pathways that underlie these toxic effects. Extensively illustrated, this book forms a conceptual bridge between multiple events at the molecular level and the determinants of toxicity at the physiological and cellular level. Specific examples of drugs, environmental pollutants, and other chemicals are carefully chosen to illustrate and highlight the fundamental mechanisms of toxicity at different toxicokinetic and toxicodynamic levels. The book includes references and review articles at the end of each chapter, as well as boxed text for relevant review information on biological, biochemical, molecular, and toxicological background. Linking molecular pathways to more general biomedical contexts, the author ensures that the reader is not lost in the details and instead receives a broad understanding of the processes underlying xenobiotic toxicity. New in the Second Edition Updated chapters Types of toxic responses Disruption of signal transduction by xenobiotics Disruption of mitochondrial function Novel mechanisms derived from systems toxicology

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The new field of toxicogenomics presents a potentially powerful set of tools to better understand the health effects of exposures to toxicants in the environment. At the request of the National Institute of Environmental Health Sciences, the National Research Council assembled a committee to identify the benefits of toxicogenomics, the challenges to achieving them, and potential approaches to overcoming such challenges. The report concludes that realizing the potential of toxicogenomics to improve public health decisions will require a concerted effort to generate data, make use of existing data, and study data in new waysâ€"an effort requiring funding, interagency coordination, and data management strategies.

Written as an advanced text for toxicology students, this book is much more than an introduction and provides in-depth information describing the underlying mechanisms through which toxicants produce their adverse responses. • Links traditional toxicology to modern molecular techniques, important for teaching to graduate courses and professional studies • Uses a didactic approach with basic biological or theoretical background for the methodology presented • Brings together and comprehensively covers a range of dynamic aspects in biochemical and molecular toxicology • Guides student and professional toxicologists in comprehending a broad range of issues, compiled and authored by a diverse group of experts • "A good introductory textbook covering the biochemical toxicology of organic substances and the relevant methodology in some detail.... It offers good value for money and can be recommended as a textbook for appropriate courses" – BTS Newsletter review of the 4th edition

Since its advent, nanotechnologies are considered key enabling technologies that take advantage of a wide array of nanomaterials (NMs) for biomedical and industrial applications generating significant societal and economic benefits. However, such innovation increases human exposure to these substances through inhalation, ingestion or dermal contact raising public health concerns. Furthermore, the NMs specific physicochemical properties, that confer them unique beneficial characteristics, can also elicit nano-bio interactions leading to toxicity and concerns for public health. In addition, such properties can be affected by the surrounding matrix, particularly when incorporated in complex matrices such as food products, leading to secondary features potentially more relevant than primary characteristics for determining their toxicological outcome. These nano specific issues raise the question of whether the NMs may produce adverse outcomes that are not accounted for when using conventional toxicological approaches to assess their safety. Such uncertainties about the safety of NMs for human health and the environment may hamper a faster and more widespread exploration of their potentials. In response, the NMs definition has evolved, and nanotoxicology has developed towards new and more integrative approach methods to support regulatory and policy actions. This book provides a perspective on recent developments in the synthesis, application, and characterization of NMs and the related nanotechnologies, focusing on nanotoxicology for their accurate safety assessment early in the product development stage. The use of complex in vitro models, including multicellular systems and organoids, and "omics-based" approaches, such as transcriptomics or epigenomics, have greatly contributed to an in-depth understanding of the cellular and molecular mechanisms behind some NMs toxicity. Such mechanistic knowledge is equally addressed in this book and has set the basis for a predictive nanotoxicology approach building on adverse outcome pathways. In addition, considering the knowledge provided by the above-mentioned approaches, insights into risk assessment, standardization, and regulation of NMs are also included. Incorporating adequate nanosafety assessment early in the life-cycle of NMs will allow the implementation of the safe and sustainable-by-design paradigm enabling safety to keep pace with innovation. Chapters 10 and 15 are available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

The adrenal gland is vitally important to health and secretes hormones that control many bodily processes ranging from normal metabolism to the response to stressful circumstances. The corticosteroid hormones are the basis for anti-inflammatory medicines and are very widely prescribed. Changes in the function of the adrenal gland, either naturally through stress or disease, or through the action of drugs and chemicals, can have a major impact on the body.; This text focuses on adrenal toxicity, examining how drugs and chemicals can directly and indirectly affect this gland. Coverage includes: classification of the types of adrenal and endocrine toxicity; the mechanistic and molecular basis of toxicity; reasons why the adrenal is the most common target organ in the endocrine system; drug toxicity specific to patients with adrenal disorders; drug- corticosteroid interactions; adverse drug reactions; and how the adrenal gland is vital in tolerance to toxic insult.

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. Introductory chapters provide a backdrop to the science of toxicology, its history, the origin and status of toxicoinformatics, and starting points for identifying resources. Offers an extensive array of chapters organized by subject, each highlighting resources such as journals, databases, organizations, and review articles. Includes chapters with an emphasis on format such as government reports, general interest publications, blogs, and audiovisuals. Explores recent internet trends, web-based databases, and software tools in a section on the online environment. Concludes with a miscellany of special topics such as laws and regulations, chemical hazard communication resources, careers and professional education, K-12 resources, funding, poison control centers, and patents. Paired with Volume Two, which focuses on global resources, 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.

This latest version of Information Resources in Toxicology (IRT) continues a tradition established in 1982 with the publication of the first edition in presenting an extensive itemization, review, and commentary on the information infrastructure of the field. This book is a unique wide-ranging, international, annotated bibliography and compendium of major resources in toxicology and allied fields such as environmental and occupational health, chemical safety, and risk assessment. Thoroughly updated, the current edition analyzes technological changes and is rife with online tools and links to Web sites. IRT-IV is highly structured, providing easy access to its information. Among the "hot topics covered are Disaster Preparedness and Management, Nanotechnology, Omics, the Precautionary Principle, Risk Assessment, and Biological, Chemical and Radioactive Terrorism and Warfare are among the designated. • International in scope, with contributions from over 30 countries • Numerous key references and relevant Web links • Concise narratives about toxicologic sub-disciplines • Valuable appendices such as the IUPAC Glossary of Terms in Toxicology • Authored by experts in their respective sub-disciplines within toxicology

A comprehensive overview of the effects of trichloroethylene toxicity caused by real-life exposure levels highlighting how exposure to trichloroethylene may contribute to the etiology of several idiopathic human diseases. Discussion will focus on different kinds of modeling and how they may be used to predict functional consequences and to dissect the contribution of different mechanistic pathways, including potential mechanisms of action for trichloroethylene toxicity in different organ systems. It will explore the role of epigenetic alterations in trichloroethylene toxicity, this provides important mechanistic information and may also provide the basis for intervention therapy. Chapters will also explain how the risks from trichloroethylene exposure may be greater in certain populations based on genetic predisposition, age of exposure and co-exposure to other chemicals With contributions from international experts in the field, Trichloroethylene: Toxicity and Health Risks is an essential resource for researchers and clinicians in toxicology, immunology, medicine and public health as well as industry and government regulatory scientists involved in safety and health protection and epidemiologists, highlighting the need for interdisciplinary cooperation in solving issues of environmental toxicity.

Fundamentals of Environmental and Toxicological Chemistry: Sustainable Science, Fourth Edition covers university-level environmental chemistry, with toxicological chemistry integrated throughout the book. This new edition of a bestseller provides an updated text with an increased emphasis on sustainability and green chemistry. It is organized based on the five spheres of Earth's environment: (1) the hydrosphere (water), (2) the atmosphere (air), (3) the geosphere (solid Earth), (4) the biosphere (life), and (5) the anthrosphere (the part of the environment made and used by humans). The first chapter defines environmental chemistry and each of the five environmental spheres. The second chapter presents the basics of toxicological chemistry and its relationship to environmental chemistry. Subsequent chapters are grouped by sphere, beginning with the hydrosphere and its environmental chemistry, water pollution, sustainability, and water as nature's most renewable resource. Chapters then describe the atmosphere, its structure and importance for protecting life on Earth, air pollutants, and the sustainability of atmospheric quality. The author explains the nature of the geosphere and discusses soil for growing food as well as geosphere sustainability. He also describes the biosphere and its sustainability. The final sphere described is the anthrosphere. The text explains human influence on the environment, including climate, pollution in and by the anthrosphere, and means of sustaining this sphere. It also discusses renewable, nonpolluting energy and introduces workplace monitoring. For readers needing additional basic chemistry background, the book includes two chapters on general chemistry and organic chemistry. This updated edition includes three new chapters, new examples and figures, and many new homework problems.

