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Toxicity and Safety Evaluation. As a leading Contract Research Organization (CRO) in the world, Creative Biolabs provides a full range of in vivo and in vitro animal toxicity testing services for global customers to support drug discovery and development. Our toxicology department consists of professional teams with extensive experience in toxicology studies, which enable us to determine potential risk factors in early drug development process for our customer's programs.

Toxicity and Safety Evaluation - Creative Biolabs
Evaluation of toxicity involves two steps: hazard identification and dose-response evaluation. Hazard identification includes a description of the specific forms of toxicity (neurotoxicity, carcinogenicity, etc.) that can be caused by a chemical and an evaluation of the conditions under which these forms of toxicity might appear in exposed humans.

4 Assessment of Toxicity | Science and Judgment in Risk ...
Mercury Toxicity: Highly Toxic, Cumulative and Still in Vaccines. By Mietek Kolipinski, Mani Subramanian, Kristina Kristen, Steven Borish and Stacy Ditta A new report in the Journal of Environmental and Public Health ▯ ▯Sources and Toxicity of Mercury in the San Francisco Bay Area, Spanning California and Beyond▯ ▯ evaluates published scientific literature on the environmental ...

Mercury Toxicity: Highly Toxic, Cumulative and Still in ...
Exposure to long-chain PFAS is associated with developmental toxicity, prompting their replacement with short-chain and fluoroether compounds. There is growing public concern over the safety of replacement PFAS. Objective: We aimed to group PFAS based on shared toxicity phenotypes.

Evaluation of Developmental Toxicity, Developmental ...
Their extensive use can contaminate aquatic ecosystems. However, the toxicological effects of this NP in the environment are poorly known. In this study, we evaluated the toxicity and oxidative stress induced by CuO NP on Chlamydomonas reinhardtii using several toxicological assays. CuO NP was found to induce growth inhibition and a significant decrease in carotenoids levels.

Evaluation of toxicity and oxidative stress induced by ...
This article reviews human exposure to neonicotinoids and summarizes the evaluation of their potential toxicity to provide insight for future studies on neonicotinoids' toxic effects on humans. 2. Human exposure levels and health effect of neonicotinoids.

Human exposure to neonicotinoid insecticides and the ...
Acute toxicity and subchronic toxicity were evaluated in mice with doses of 250 to 1000 mg/kg orally, following recognized protocols. The in vitro results indicated cytotoxic activity for 3T3 cell line (normal) and 786-0 (kidney carcinoma), showing the activity to be concentration-dependent, reaching 92.23% cell inhibition.

In Vivo and In Vitro Toxicity Evaluation of Hydroethanolic ...
multiheterocyclic (FMMH) compounds were selected for a systematic evaluation of their metabolic profiles and toxicities on TAMH cells, a metabolically competent rodent liver cell line and HepG2 cells, a model of human hepatocytes. Our studies showed that generally the rhodanines are the most toxic, followed by the

Systematic Evaluation of the Metabolism and Toxicity of ...
Synthetic nitro musks are fragrant chemicals found in household and personal care products. The use of these products leads to direct exposures via dermal absorption, as well as inhalation of contaminated dust and volatilized fragrances. Evidence also suggests that humans are exposed to low doses of these chemicals through oral absorption of contaminated liquids and foods.

Human exposure to nitro musks and the evaluation of their ...
1. J Enzyme Inhib Med Chem. 2020 Dec;35(1):65-71. doi: 10.1080/14756366.2019.1683007. In vitro inhibition of Mycobacterium tuberculosis ▯-carbonic anhydrase 3 with Mono- and dithiocarbamates and evaluation of their toxicity using zebrafish developing embryos.

In vitro inhibition of Mycobacterium tuberculosis ▯ ...
Low toxicity was predicted for the most active compounds. Also, their bioavailability was predicted to be more than 70 percent. Conclusions. Quinoxaline derivatives are promising as antimicrobial and anticancer agents because they exhibit low toxicity and are advantageous in their pharmacokinetic properties

The public depends on competent risk assessment from the federal government and the scientific community to grapple with the threat of pollution. When risk reports turn out to be overblown--or when risks are overlooked--public skepticism abounds. This comprehensive and readable book explores how the U.S. Environmental Protection Agency (EPA) can improve its risk assessment practices, with a focus on implementation of the 1990 Clean Air Act Amendments. With a wealth of detailed information, pertinent examples, and revealing analysis, the volume explores the "default option" and other basic concepts. It offers two views of EPA operations: The first examines how EPA currently assesses exposure to hazardous air pollutants, evaluates the toxicity of a substance, and characterizes the risk to the public. The second, more holistic, view explores how EPA can improve in several critical areas of risk assessment by focusing on cross-cutting themes and incorporating more scientific judgment. This comprehensive volume will be important to the EPA and other agencies, risk managers, environmental advocates, scientists, faculty, students, and concerned individuals.

This edited volume discusses the short-term inhalation study (STIS) and intratracheal administration, the two major in vivo inhalation-toxicity screening methods, which play an important role in efficient hazard evaluation. It also provides a general overview of the inhalation toxicity of nanomaterials and related issues. For each screening method, it provides up-to-date information on the test procedures, interpretation of the test results, useful applications, and related technologies. In view of the increasing variety of nanomaterials in practical use, the book offers a basis for building a framework for grouping and read-across assessments of nanomaterials. With contributions by academic and industrial experts, In vivo Inhalation Toxicity Screening Methods for Manufactured Nanomaterials is a pragmatic reference resource for readers who are responsible for assessing the safety of nanomaterials in R&D and business, as well as researchers.

The United States Navy has been concerned for some time with protecting its military and civilian personnel from reproductive and developmental hazards in the workplace. As part of its efforts to reduce or eliminate exposure of Naval personnel and their families to reproductive and developmental toxicants, the Navy requested that the National Research Council (NRC) recommend an approach that can be used to evaluate chemicals and physical agents for their potential to cause reproductive and developmental toxicity. The NRC assigned this project to the Committee on Toxicology, which convened the Subcommittee on Reproductive and Developmental Toxicology, to prepare this report. In this report, the subcommittee recommends an approach for evaluating agents for potential reproductive and developmental toxicity and demonstrates how that approach can be used by the Navy. This report has been reviewed in draft form by individuals chosen for their diverse perspectives and technical expertise, in accordance with procedures approved by the NRC's Report Review Committee. The purpose of this independent review is to provide candid and critical comments that will assist the institution in making its published report as sound as possible and to ensure that the report meets institutional standards for objectivity, evidence, and responsiveness to the study charge. The review comments and draft manuscript remain confidential to protect the integrity of the deliberative process. We wish to thank the following individuals for their review of this report: James Chen (National Center for Toxicological Research), George Daston (Procter and Gamble Company), Jerry Heindel (National Institute of Environmental Health Sciences), Grace Lemasters (University of Cincinnati), and John Young (National Center for Toxicological Research).

Polyphenols in Human Health and Disease documents antioxidant actions of polyphenols in protection of cells and cell organelles, critical for understanding their health-promoting actions to help the dietary supplement industry. The book begins by describing the fundamentals of absorption, metabolism and bioavailability of polyphenols, as well as the effect of microbes on polyphenol structure and function and toxicity. It then examines the role of polyphenols in the treatment of chronic disease, including vascular and cardiac health, obesity and diabetes therapy, cancer treatment and prevention, and more. Explores neuronal protection by polyphenol metabolites and their application to medical care Defines modulation of enzyme actions to help researchers see and study polyphenols▯ mechanisms of action, leading to clinical applications Includes insights on polyphenols in brain and neurological functions to apply them to the wide range of aging diseases

Explores the benefits and limitations of the latesthigh-throughput screening methods With its expert coverage of high-throughput in vitroscreening methods for toxicity testing, this book makes it possiblefor researchers to accelerate and streamline the evaluation andrisk assessment of chemicals and drugs for toxicity. Moreover, itenables them to comply with the latest standards set forth by theU.S. National Research Council's "Toxicity Testing in the 21stCentury: A Vision and Strategy" and the E.U.'s REACH legislation.Readers will discover a variety of state-of-the-science,high-throughput screening methods presented by a group of leadingauthorities in toxicology and toxicity testing. High-Throughput Screening Methods in Toxicity Testing isdivided into five parts: General aspects, including predicting the toxicity potential ofchemicals and drugs via high-throughput bioactivity profiling Assessing different cytotoxicity endpoints Assessing DNA damage and carcinogenesis Assessing reproductive toxicity, cardiotoxicity, andhaematotoxicity Assessing drug metabolism and receptor-related toxicity Each chapter describes method principles and includes detailedinformation about data generation, data analysis, and applicationsin risk assessment. The authors not only enumerate the advantagesof each high-throughput method over comparable conventionalmethods, but also point out the high-throughput method'slimitations and potential pitfalls. In addition, the authorsdescribe current research efforts to make high-throughput toxicityscreening even more cost effective and streamlined. Throughout the book, readers will find plenty of figures andillustrations to help them understand and perform the latesthigh-throughput toxicity screening methods. This book is ideal for toxicologists and other researchers whoneed to implement high-throughput screening methods for toxicitytesting in their laboratories as well as for researchers who needto evaluate the data generated by these methods.

With a weight-of-the-evidence approach, cancer risk assessment indentifies hazards, determines dose-response relationships, and assesses exposure to characterize the true risk. This book focuses on the quantitative methods for conducting chemical cancer risk assessments for solvents, metals, mixtures, and nanoparticles. It links these to the basic toxicology and biology of cancer, along with the impacts on regulatory guidelines and standards. By providing insightful perspective, Cancer Risk Assessment helps researchers develop a discriminate eye when it comes to interpreting data accurately and separating relevant information from erroneous.

Advances in molecular biology and toxicology are paving the way for major improvements in the evaluation of the hazards posed by the large number of chemicals found at low levels in the environment. The National Research Council was asked by the U.S. Environmental Protection Agency to review the state of the science and create a far-reaching vision for the future of toxicity testing. The book finds that developing, improving, and validating new laboratory tools based on recent scientific advances could significantly improve our ability to understand the hazards and risks posed by chemicals. This new knowledge would lead to much more informed environmental regulations and dramatically reduce the need for animal testing because the new tests would be based on human cells and cell components. Substantial scientific efforts and resources will be required to leverage these new technologies to realize the vision, but the result will be a more efficient, informative and less costly system for assessing the hazards posed by industrial chemicals and pesticides.

Initially marketed as a life-saving advancement, flame retardants are now mired in controversy. Some argue that data show the chemicals are unsafe while others continue to support their use. The tactics of each side have far-reaching consequences for how we interpret new scientific discoveries. An experienced environmental sociologist, Alissa Cordner conducts more than a hundred interviews with activists, scientists, regulators, and industry professionals to isolate the social, scientific, economic, and political forces influencing environmental health policy today. Introducing "strategic science translation," she describes how stakeholders use scientific evidence to support nonscientific goals and construct "conceptual risk formulas" to shape risk assessment and the interpretation of empirical evidence. A revelatory text for public-health advocates, Toxic Safety demonstrates that while all parties interested in health issues use science to support their claims, they do not compete on a level playing field and even good intentions can have deleterious effects.

This edited book, Toxicity and Hazard of Agrochemicals, is intended to provide an overview of toxicology that examines the hazardous effects of common agrochemicals employed every day in our agricultural practices. Furthermore, it is hoped that the information in the present book will be of value to those directly engaged in the handling and use of agrochemicals and that this book will continue to meet the expectations and needs of all interested in the different aspects of human and environmental risk toxicities.