



METHODS IN RENAL TOXICOLOGY

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Methods In Renal Toxicology

Jose V. Castell, Maria Jose Gmez-Lechn



Methods In Renal Toxicology:

Methods in Renal Toxicology Rudolfs K. Zalups, Lawrence H. Lash, 1996-03-14 The only up to date compilation of renal methods available this book is the definitive resource for any renal researcher eager to stay ahead Methods in Renal Toxicology presents a vast array of methods for the study of renal cellular and tubular structure function and biochemistry under physiological toxicological and pathological conditions It provides detailed descriptions in easy to understand language of methods designed to enhance your research efforts Methods in Renal Toxicology puts you on the cutting edge with valuable chapters detailing molecular methods and transgene and gene targeting the most recent approaches to the study of renal toxicology Overall the book s topics range from non invasive assessments of renal function in the whole animal and clinical settings to cellular and molecular approaches Specifically the book delves into measurements of clearance and urinary markers histopathology and methods to assess renal carcinogenesis mutagenesis oxidative stress mitochondria injury cellular repair and drug metabolism and transport A variety of in vitro methods are also described including the isolated perfused kidney micropuncture microperfusion microdissection renal slices isolated perfused tubules suspensions of tubules and isolated cells and primary cell cultures and cell lines Methods in Renal Toxicology is a must have resource for all renal investigators Nowhere else can you find concise descriptions of traditional and up to the minute renal toxicology methods in such a practical well written single volume guide

Principles and Methods of Toxicology, Fifth Edition A. Wallace Hayes, 2007-09-25 Founded on the paradox that all things are poisons and the difference between poison and remedy is quantity the determination of safe dosage forms the base and focus of modern toxicology In order to make a sound determination there must be a working knowledge of the biologic mechanisms involved and of the methods employed to define these mechanisms While the vastness of the field and the rapid accumulation of data may preclude the possibility of absorbing and retaining more than a fraction of the available information a solid understanding of the underlying principles is essential Extensively revised and updated with four new chapters and an expanded glossary this fifth edition of the classic text Principles and Methods of Toxicology provides comprehensive coverage in a manageable and accessible format New topics include toxicoponomics plant and animal poisons information resources and non animal testing alternatives Emphasizing the cornerstones of toxicology people differ dose matters and things change the book begins with a review of the history of toxicology and followed by an explanation of basic toxicological principles agents that cause toxicity target organ toxicity and toxicological testing methods including many of the test protocols required to meet regulatory needs worldwide The book examines each method or procedure from the standpoint of technique and interpretation of data and discusses problems and pitfalls that may be associated with each The addition of several new authors allow for a broader and more diverse treatment of the ever changing and expanding field of toxicology Maintaining the high quality information and organizational framework that made the previous editions so successful Principles and Methods of Toxicology Fifth Edition

continues to be a valuable resource for the advanced practitioner as well as the new disciple of toxicology Hayes' Principles and Methods of Toxicology A. Wallace Hayes,Tetyana Kobets,2023-07-03 Hayes Principles and Methods of Toxicology has long been established as a reliable and informative reference for the concepts methodologies and assessments integral to toxicology The new edition contains updated and new chapters with the addition of new authors while maintaining the same high standards that have made this book a benchmark resource in the field Key Features The comprehensive yet concise coverage of various aspects of fundamental and applied toxicology makes this book a valuable resource for educators students and professionals Questions provided at the end of each chapter allow readers to test their knowledge and understanding of the material covered All chapters have been updated and over 60 new authors have been added to reflect the dynamic nature of toxicological sciences New topics in this edition include Safety Assessment of Cosmetics and Personal Care Products The Importance of the Dose Rate Response Novel Approaches and Alternative Models Epigenetic Toxicology and an Expanded Glossary The volume is divided into 4 major sections addressing fundamental principles of toxicology Section I Principles of Toxicology major classes of established chemical hazards Section II Agents current methods used for the assessment of various endpoints indicative of chemical toxicity Section III Methods as well as toxicology of specific target systems and organs Section IV Organ and System Specific Toxicology This volume will be a valuable tool for the audience that wishes to broaden their understanding of hazards and mechanisms of toxicity and to stay on top of the emerging methods and concepts of the rapidly advancing field of toxicology and risk assessment **Hayes' Principles and Methods of Toxicology, Sixth Edition** A. Wallace Hayes,Claire L. Kruger,2014-10-10 Hayes Principles and Methods of Toxicology has long been established as a reliable reference to the concepts methodologies and assessments integral to toxicology The new sixth edition has been revised and updated while maintaining the same high standards that have made this volume a benchmark resource in the field With new authors and new chapters that address the advances and developments since the fifth edition the book presents everything toxicologists and students need to know to understand hazards and mechanisms of toxicity enabling them to better assess risk The book begins with the four basic principles of toxicology dose matters people differ everything transforms and timing is crucial The contributors discuss various agents of toxicity including foodborne solvents crop protection chemicals radiation and plant and animal toxins They examine various methods for defining and measuring toxicity in a host of areas including genetics carcinogenicity toxicity in major body systems and the environment This new edition contains an expanded glossary reflecting significant changes in the field New topics in this edition include The importance of dose response Systems toxicology Food safety The humane use and care of animals Neurotoxicology The comprehensive coverage and clear writing style make this volume an invaluable text for students and a one stop reference for professionals **Methods in Renal Toxicology** Rudolfs K. Zalups,Lawrence H. Lash,1996-03-14 The only up to date compilation of renal methods available this book is the definitive resource for any renal researcher eager to stay ahead

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In Vitro Methods in Toxicology C. K. Atterwill, C. E. Steele, 1987-10-22. The volume brings together the once disparate knowledge of cultural techniques and thus provides an important reference work for industrial and academic toxicologists.

Tobacco-Specific N-Nitrosamines

Recent Advances Roger O. McClellan, 1996-05-10. This remarkable book provides updates on various aspects of tobacco, its chemical and biological nature, and its physiological effects.

Toxicology of the Kidney Joan B. Tarloff, Lawrence H. Lash, 2004-12-28. The kidney plays a vital role in certain endocrine functions. Abnormalities caused by toxic chemicals or other interventions can have profound effects on these functions and consequently on total functions. Toxicology of the Kidney, Third Edition, is updated to reflect the latest research in this field and focuses on the correlation between anatomy.

In Vitro Methods in Pharmaceutical Research Jose V. Castell, Maria Jose Gmez-Lechn, 1996-10-04. In Vitro Methods in Pharmaceutical Research provides a comprehensive guide to laboratory techniques for evaluating in vitro organ toxicity using cellular models. Step by step practical tips on how to perform and interpret assays for drug metabolism and toxicity assessment are provided along with a comparison of different techniques available. It is a welcome addition to the literature at a time when interest is growing in cellular in vitro models for toxicology and pharmacology studies. Meets the continuing demand for information in this field. Compares In Vitro techniques with other methods. Describes cell culture methods used to investigate toxicity in cells derived from different organs. Includes contributions by leading experts in the field.

Principles of Toxicology Testing Frank A Barile, 2013-04-02. Nationally, toxicology programs have evolved from a traditional exploration of the chemistry and applied toxicity of chemicals and drugs to a more comprehensive study of toxicology and toxicology testing as independent entities. Consequently, the second edition of Principles of Toxicology Testing starts with basic toxicological principles including

Mammalian Toxicology Mohamed Abou-Donia, 2015-02-05. Mammalian Toxicology

surveys chemical agents and examines how such chemicals impact on human health emphasizing the importance in minimizing environmental exposure to chemical and physical hazards in our homes communities and workplaces through such media as contaminated water soil and air Starting with the basic principles on a wide range of toxic agents this textbook describes how they enter the body their mechanisms of action once inside and strategies for diagnosis prevention and treatment Topics covered include General principles of toxicology pharmacological and toxicological principles underpinning the study of toxicology risk assessments and mechanisms of cell death Disposition routes of chemical exposures entry into the body and various tissues storage metabolic biotransformation and elimination with examples from various toxicants Toxic agents the occurrences disposition in the body health effects toxic mechanisms antidotes and treatments of a range of agents including pesticides metals solvents gases nanomaterials food components and additives pharmaceuticals drugs of abuse natural toxins endocrine disruptors radiation and warfare weapons Toxic effects including neurotoxicity developmental toxicity immunotoxicity teratogenicity male and female reproductive toxicity mutagenicity carcinogenicity pulmonary toxicity cardiovascular toxicity hepatotoxicity gastrointestinal toxicity and cardiovascular toxicity Toxicology and society epidemiological studies of chemical induced diseases in human populations and a vision for toxicology in the 21st century Mammalian Toxicology is an essential primer for students of toxicology biochemistry biology medicine and chemistry It is also appropriate for professional toxicologists in research or regulatory affairs and anyone who needs to understand the adverse effects of toxic agents on the human body

Information Resources in Toxicology P.J. Bert Hakkinen, Gerald Kennedy, Frederick W. Stoss, 2000-01-10 Information Resources in Toxicology Third Edition is a sourcebook for anyone who needs to know where to find toxicology information It provides an up to date selective guide to a large variety of sources books journals organizations audiovisuals internet and electronic sources and more For the Third Edition the editors have selected organized and updated the most relevant information available New information on grants and other funding opportunities physical hazards patent literature and technical reports have also been added This comprehensive time saving tool is ideal for toxicologists pharmacologists drug companies testing labs libraries poison control centers physicians legal and regulatory professionals and chemists Serves as an all in one resource for toxicology information New edition includes information on publishers grants and other funding opportunities physical hazards patent literature and technical reports Updated to include the latest internet and electronic sources e mail addresses etc Provides valuable data about the new fields that have emerged within toxicological research namely the biochemical cellular molecular and genetic aspects

Toxicology- From Cells to Man Jürg P. Seiler, Olga Kroftova, Vladislav Eybl, 2012-12-06 Renal transport and xenobiotic metabolism play an important role in the detoxication and excretion of potentially toxic xenobiotics However recent experimental evidence has demonstrated that renal xenobiotic metabolism and renal transport processes also play an important role in the nephrotoxicity of xenobiotics and xenobiotic metabolites The high blood flow to the kidney combined

with its ability to concentrate solutes may expose the kidney to high concentrations of xenobiotics and xenobiotics metabolites present in the systemic circulation Recently it has been demonstrated that xenobiotic metabolites formed in the liver and other organs may be targeted to the kidney by selective transport systems many xenobiotics require enzymatic transformation to proximate reactive metabolites to elicit their toxic and carcinogenic effects The enzymatic formation of reactive metabolites is termed bioactivation The bioactivation mechanisms for many nephrotoxics have at least in part been elucidated in the past 15 years Many ultimate toxicants formed in the kidney are electrophiles whose interaction with cellular macromolecules may cause a perturbation of normal cell function resulting in necrosis and or cancer Anders 1988 Electrophilic metabolites may bind to nucleophilic sites in cellular macromolecules the importance of covalent modification of protein and DNA in cell killing and in the induction of tumors is established Miller and Miller 1981 Nelson and Pearson 1990 Hinson and Roberts 1992 The objective of this review is to summarize new information about renal transport renal bioactivation and their relation to nephrotoxicity using two relevant example for the basic mechanisms outlined above

Comprehensive Toxicology: Renal toxicology I. Glenn Sipes, 1997 This volume in the Comprehensive Toxicology series demonstrates how the use of extremely powerful molecular and cell biology techniques has stimulated the growth of toxicology as a scientific discipline The field of toxicology has evolved from its earlier days of in vivo and descriptive studies to focusing on mechanisms Frequently mechanisms require an examination at the cellular and molecular level Molecular toxicology has opened the door to comprehending the basic mechanisms of how toxicants show their effects The volume is a comprehensive integrated profile of the molecular effects of toxicants and the molecular mechanisms involved in producing cellular and tissue injury

Drug Safety Evaluation Shayne Cox Gad, Dexter W. Sullivan, Jr., 2023-01-12 Drug Safety Evaluation Comprehensive and practical guide presenting a roadmap for safety assessment as an integral part of the development of drugs and therapeutics This fourth edition of Drug Safety Evaluation maintains the central objective of presenting an all inclusive practical guide for those who are responsible for ensuring the safety of drugs and biologics to patients healthcare providers those involved in the manufacture of medicinal products and all those who need to understand how the safety of these products is evaluated and shepherding valuable candidates to market Individual chapters address specific approaches to evaluation hazards including problems that are encountered and their solutions Also covered are the scientific and philosophical bases for evaluation of specific concerns e g carcinogenicity development toxicity etc to provide both understanding and guidance for approaching the new problems that have come to face both our society and the new challenges they brought The many changes in regulatory requirements pharmaceutical development technology and the effects of Covid on our society and science have required both extensive revision to every chapter and the addition of four new chapters Specific sample topics covered in Drug Safety Evaluation include The drug development process and the global pharmaceutical marketplace and regulation of human pharmaceutical safety Sources of information for consideration in

study and program design and in safety evaluation Electronic records reporting and submission screens in safety and hazard assessment and formulations routes and dosage regimens Mechanisms and endpoints of drug toxicity pilot toxicity testing in drug safety evaluation and repeat dose toxicity Genotoxicity QSAR tools for drug safety toxicogenomics nonrodent animal studies and developmental and reproductive toxicity testing An appendix which provides an up to date guide to CROs for conducting studies Drug Safety Evaluation was written specifically for the pharmaceutical and biotechnology industries including scientists consultants and academics to show a utilitarian yet scientifically valid path to the everyday challenges of safety evaluation and the problem solving that is required in drug discovery and development *Principles of Toxicology* Karen E. Stine, Thomas M. Brown, 2015-04-17 Reflecting the broad and interdisciplinary nature of toxicology this third edition of *Principles of Toxicology* explores the biochemical physiological and environmental aspects of the subject This new edition is updated and revised to include reference to several major new directions in the science of toxicology including significant changes in *Principles of Toxicology* Stine Karen, Thomas M. Brown, 2006-01-24 Written by two experienced toxicology lecturers *Principles of Toxicology* provides a broad based yet in depth introduction to this diverse subject Comprehensive and easy to read the book covers this broad and interdisciplinary field from the viewpoint of three different functional levels molecular and cellular physiological and ecological and *Biotechnology And Safety Assessment* John A. Thomas, 1993-06-30 In this volume experts from academe industry and public health institutes discuss the issues involved in toxicology evaluation safety assessment and regulation of biotechnology derived drugs foods and plant products Coverage includes recombinant DNA agents monoclonal antibodies recombinant hormones and other proteins biotechnology derived drug delivery systems gene therapy for genetic diseases and genetically engineered plants and plant products Full consideration is given to key methodological issues in product development and testing such as use of in vitro and in vivo toxicology tests choice of animal models and use of transgenic animal models and genetically altered species to study human diseases The book includes an appendix describing available animal models and a glossary of terms definitions and acronyms

Molecular and Biochemical Toxicology Robert C. Smart, Ernest Hodgson, 2017-11-06 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 *Handbook of Drug*

Metabolism, Third Edition Paul G. Pearson, Larry C. Wienkers, 2019-05-20 This book continues to be the definitive reference on drug metabolism with an emphasis on new scientific and regulatory developments It has been updated based on developments that have occurred in the last 5 years with new chapters on large molecules disposition stereo selectivity in drug metabolism drug transporters and metabolic activation of drugs Some chapters have been prepared by new authors who have emerged as subject area experts in the decade that has passed since publication of the first edition

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