



PLACENTAL TOXICOLOGY



Edited by
B.V. Rama Sastry

Placental Toxicology Pharmacology Toxicology S

B. V. Rama Sastry



Placental Toxicology Pharmacology Toxicology S:

Placental Toxicology B. V. Rama Sastry, 1995-02-24 Placental Toxicology examines placental transfer and toxicology of drugs and environmental agents to placenta as well as to fetus For the first time in a single volume placental and fetal consequences of exposure of pregnant women to drugs environmental chemicals and infections such as HIV are discussed Topics include The art of in Placental Pharmacology B. V. Rama Sastry, 1996-05-06 Placenta plays a very significant role in the development of secretory and regulatory functions for the maintenance of pregnancy and in the nutrition of the embryo It shares many functions of the heart lung liver endocrines and other organs In Placental Pharmacology fourteen expert authors discuss how placenta and its component parts can be used effectively in drug development research and in the study of transfer mechanisms across membranes This reference begins by describing the use of modern biophysical methods to study placental function and prospects for their application in pharmacological research The next three chapters deal with placental hemodynamics use of placental tissues and cells in pharmacological assays and placental transfer of drugs used in pregnancy Three more chapters contain up to date information on molecular biological aspects of placenta currently receiving lots of attention phospholipase A2 isozymes imprinted genes and embryogenesis and placental growth factors The final chapter describes the clinically relevant topics of placental metabolism and toxicity of homocysteine in placenta Easy to understand thorough and complete Placental Pharmacology is the perfect resource for scientists interested in placenta and its uses in drug development and testing *Introduction to Neurobehavioral Toxicology* Hugh A. Tilson, R.M.A. Jaspers, L.M.W. Kornet, J.M. van Ree, 1998-11-25 Introduction to Neurobehavioral Toxicology Food and Environment examines the effects of chemicals on the central and peripheral nervous system and the subsequent changes in behavior with a focus on the toxicity of food components and behavioral effects of environmental toxicants Topics addressed include acute and chronic effects reversible and **Veterinary Toxicology** Ramesh C Gupta, 2012-04-23 Veterinary Toxicology 2nd Edition is a unique single reference that teaches the basic principles of veterinary toxicology and builds upon these principles to offer an essential clinical resource for those practicing in the field This new edition brings together insights from qualified and well experienced authorities across all areas of veterinary toxicology to provide an authoritative and in depth look at all facets of veterinary toxicology including target organ toxicity melamine and cyanuric acid toxicogenomics chemical terrorism and nanoparticles While most comparable texts are primarily directed toward the field of human toxicology this is the one text needed to thoroughly prepare future veterinarians on the newest approaches for diagnosing poisoning cases in all animals from chemicals and plants of a diverse nature as a result of inadvertent accidental or malicious intents It is thoroughly updated with new chapters and the latest coverage of topics not tackled in any previous books such as target organ toxicity radiation and radioactive materials FDA regulatory issues and ethics in veterinary toxicology There are also expanded discussions on international topics such as epidemiology of animal poisonings and regulatory guidelines and

poisonous plants in Europe Problem solving strategies are offered for treatment This volume will be of interest to practitioners professors and students of veterinary medicine and veterinary toxicology poison control centers marine biologists environmentalists and animal scientists Selected for inclusion in Doody's Core Titles 2013 an essential collection development tool for health sciences libraries New chapters covering important and timely topics such as melamine and cyanuric acid toxicogenomics toxic gases and veterinary medical geology Expanded look at international topics such as epidemiology of animal poisonings regulatory guidelines and poisonous plants in Europe Heavily contributed book with chapters written by qualified and well experienced authorities across all areas of veterinary toxicology Problem solving strategies are offered for treatment as well as in depth knowledge of the basic mechanisms of veterinary toxicology

Environmental Toxicology And Pharmacology Of Human Development Sam Kacew,1997-03-10 Despite the many benefits the extensive use of chemicals and pharmaceutical products in agriculture energy production transportation pharmaceuticals and other products can result in the inadvertent exposure of the fetus and the neonate This text reviews the current knowledge of the pharmacokinetic characteristics metabolism and renal handling of chemical and drugs in the fetus lactating infant and newborn and goes on to deal with the fetus and the manner in which chemicals can affect the outcome of the newborn

Reproductive and Developmental Toxicology Ramesh C Gupta,2011-04-04 Reproductive toxicology is a complex subject dealing with three components parent placenta and fetus and the continuous changes that occur in each Reproductive and Developmental Toxicology is a comprehensive and authoritative resource providing the latest literature enriched with relevant references describing every aspect of this area of science It addresses a broad range of topics including nanoparticles and radiation gases and solvents smoking alcohol and drugs of abuse food additives nutraceuticals and pharmaceuticals and metals among others With a special focus on placental toxicity this book is the only available reference to connect the three key risk stages and is the only resource to include reproductive and developmental toxicity in domestic animals fish and wildlife Provides a complete integrated source of information on the key risk stages during reproduction and development Includes coverage of emerging science such as stem cell application toxicoproteomics metabolomics phthalates infertility teratogenicity endocrine disruption surveillance and regulatory considerations and risk assessment Offers diverse and unique in vitro and in vivo toxicity models for reproductive and developmental toxicity testing in a user friendly format that assists in comparative analysis

Developmental and Reproductive Toxicology Ronald D. Hood,Ronald D Hood,2005-08-30 Completely revised and updated Developmental and Reproductive Toxicology A Practical Approach Second Edition draws together valuable information typically scattered throughout the literature plus some not previously published into one complete resource In addition to the traditional aspects of developmental toxicity testing the book covers e Teratogenesis and Reproductive Toxicology E.M. Johnson,D.M. Kochhar,2012-12-06 The resolution of links between exposure to components of our complex environmental and causation of reproductive effects in the population

constitutes an important problem in the field of toxicology. The focus of this volume is developmental toxicology which represents one aspect of reproductive toxicology dealing with the study of adverse effects on the developing conceptus. Developmental toxicology which includes teratogenesis as one of its manifestations provides a fertile field for research in several basic and clinical disciplines; this field also receives input from several disciplines such as developmental and molecular biology, pathology, pharmacology and toxicology, pediatrics and neonatology and epidemiology. More recently we have seen an emergence of interest in other fields such as perinatal physiology and postnatal behavior which have now become incorporated into the mainstream of research in this discipline. The present volume is an effort to provide a sampling of concepts currently under active investigation in several of the above fields. The authors have endeavored to provide up to date information on the following topics: detection and analysis of potential hazards to the conceptus in the workplace; pharmacokinetic aspects of the maternal-placental-fetal complex and its relationship to human birth defects and probable mechanisms of teratogenesis as uncovered in certain well defined situations. Also included are summaries of newer investigations on the emerging field of postnatal functional evaluations i.e. adverse effects on adult activities resultant from in utero exposure to toxic substances.

Preclinical and Clinical Modulation of Anticancer Drugs Kenneth D. Tew, Peter J. Houghton, Janet A. Houghton, 1993-09-15. Preclinical and Clinical Modulation of Anticancer Drugs focuses on the theoretical and practical approaches to designing and enacting modulation principles. Each class of anticancer drug and the different types of modulators used within each drug class are discussed within individual chapters. The molecular and biochemical rationale for the use of specific modulators is discussed in detail and preclinical and clinical implications of the data are integrated into each chapter. Mechanisms of drug resistance and the reasons behind circumventing the resistant phenotype are covered. The book will interest cancer chemotherapists, pharmacologists, oncologists, biochemists and experimental therapeutics researchers in addition to students studying the principles of drug discovery and protocol design.

Neonatal and Pediatric Pharmacology Sumner J. Yaffe, Jacob V. Aranda, 2011. Neonatal and Pediatric Pharmacology offers guidelines for safe, effective and rational drug therapy in newborns, children and adolescents. The book provides relevant and useful data on the molecular, physiologic, biochemical and pharmacologic mechanisms of drug action and therapy in this population. The authors identify areas of innovative basic and translational research necessary for the continuing evaluation and development of drugs for the fetus, newborns, children and adolescents. Neonatal and Pediatric Pharmacology is a valuable reference for all health care professionals who treat the fetus, newborns, children and adolescents including neonatologists, nurses, pediatricians, general practitioners, students, obstetricians, perinatologists, surgeons and allied health professionals. It will be useful anytime during the day and especially in the middle of the night when knowledge of appropriate indications, safe and effective use, dosage and therapeutic regimen for a certain drug or molecular entity is immediately needed. The book is also directed to those involved in basic, clinical and other academic pharmacological research, the pharmaceutical industry and

regulatory agencies dealing with drug and therapeutic developments for this population Those teaching pharmacology and therapeutics will find this compilation of information extremely useful in preparing teaching materials Provided by publisher

Subject Index of Current Research Grants and Contracts Administered by the National Institute of General Medical Sciences National Institute of General Medical Sciences (U.S.). Division of Research Grants,1976 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 **Beneficial and Toxic Effects of Aspirin** Susan E. Feinman,1993-12-06 Recently aspirin has been found to be associated with a decreased risk of heart disease and other newly found health benefits However it produces allergy like and toxic effects in many individuals Beneficial and Toxic Effects of Aspirin reviews in a single volume the benefits of aspirin and its adverse effects A panel of experts has been gathered to contribute to this work providing a balanced view of multiple topics Contributors to this volume include outstanding allergists who describe bronchial and skin sensitivity to aspirin as well as prevention and treatment Other experts cover **Human Growth Hormone Pharmacology** Kathleen T. Shiverick,Arlan L. Rosenbloom,1995-03-09 This book addresses a wide range of basic and clinical issues in the physiology and pharmacology of growth hormone The volume is organized like a textbook It begins with factors contributing to GH gene expression the functional relationships of the GH receptor molecular biological analysis of the GH GH receptor complex and proceeds to describe the insulin like growth factor axis Transgenic models are discussed for analysis of discrete effects These discussions provide a bridge to clinically oriented discussions of growth abnormalities in GH deficient children GH insensitivity due to deficiency of the GH receptor and the concept of aging as a GH IGF I deficiency state Discussions also include the immune system as a source and a responder to GH GHRH IGF I and the effects of GH excess *Reproductive Endocrinology and Biology* Edward Bittar,1998-07-27 We have now reached the mid point of our editorial task of putting together the compendium Principles of

Medical Biology which is supposed to be composed of twenty five modules The present single volume module on reproductive endocrinology and biology is in more than one respect a continuation of Module 10 in two volumes dealing with molecular and cellular endocrinology In addition it intersects as it should with various parts of obstetrics and gynaecology both of which are abetted by technology One has only to recall that the practical benefits of ultrasound in perinatal medicine and in vitro fertilisation are the outcome of the technological revolution in biomedicine Whether we are approaching a new era in reproductive biology following the invention of animal cloning is still hard to tell For some people it remains an article of faith that cloning of the human being is highly probable For others asexual reproduction is anathema It should surely be obvious to us all that somatic cell nuclear transfer technology SCNTT is going to be at its strongest in dealing with husbandry Whether this and several social forces will alter our modern outlook there can be little doubt As in diverse clinical and basic research so in obstetrics animals are used as a model The data thus obtained is extrapolated if valid to the mother and foetus The success of this approach is exemplified in studies carried out on sheep as a model On the whole it is also quite apparent that progress in the field of reproductive biology is to a large extent ascribable to the discovery in other disciplines of new hormones as well as the introduction of new tools and recent improvements in laboratory methods including measurement of hormones

Drug Therapy During Pregnancy Tom K. A. B. Eskes, Mieczyslaw Finster, 2013-10-22 *Drug Therapy During Pregnancy* is a collection of papers dealing with the risks and benefits of drug treatment for both mother and fetus One paper notes that the total use of medication during pregnancy in the Netherlands has decreased from 82.7 % to 71.7 % The paper also points out the lack of a relationship between the number or type of congenital anomalies and the use of medication Another paper assesses fetal drug exposure in two ways firstly through the physicochemical characteristics of the drug and the way it is handled by the mother in order to estimate placental passage and fetal exposure Secondly through the utilization of pharmacokinetic models estimating the probable time course of drug concentrations in the foeto maternal unit One paper investigates the effects of hypertension during pregnancy in which the etiology of hypertension a group of disorders with one common abnormality remains unsolved with a clinical diagnosis that is not always accurate Treatment differs widely depending on the type chronic hypertension albuminuric hypertension and hypertensive crises during pregnancy One paper suggests that to prove any environmental exposure to a particular substance affecting pregnancy the exact timing of exposure must be established large samples are necessary possibly on a national or international scale The paper cites as example the four year documentation period of the 50% to 80% incidence of malformations due to thalidomide General medicine practitioners obstetricians gynecologists and researchers dealing with pharmacology pharmacokinetics toxicology or embryology will find the collection valuable

Introduction to Pharmacology Mannfred A. Hollinger, 2007-10-19 Advances in pharmacogenomics and proteomics along with the introduction of recombinant DNA technology have expanded the applications of pharmacology to encompass a range of disciplines Biomedical researchers

protein specialists and molecular biologists are all involved in the development and delivery of novel drugs Therefore students in a va *Subject Index of Current Research Grants and Contracts Administered by the National Institute of General Medical Sciences* National Institute of General Medical Sciences (U.S.),1976 **Drug Toxicity & Metabolism In Pediatrics** Sam Kacew,1989-11-30 The aim of this text is to examine the physiological development of the fetus It allows the reader to study the unique pharmacokinetic and metabolic features of newborns and gives specific examples of drug metabolism in the newborn The purpose of this book is to enhance the current knowledge of pharmacology of the newborn by observing the embryo and placenta in normal and abnormal development placental transfer of drugs metabolic pathways and metabolism of specific drugs such as theophylline benzodiazepines and antibiotics This is a useful book for those involved in pediatric research pharmacology toxicology experimental therapeutics and biology *Angiotensin II Receptors* Robert R. Ruffolo, Jr.,1994-09-06 This unique reference set provides a broad based in depth presentation on angiotensin II receptors from the genes that encode them to the responses they mediate in humans The books emphasize known and potential therapeutic applications of the antagonists of angiotensin II receptors and the angiotensin converting enzyme inhibitors The molecular biology of angiotensin II receptors is reviewed as are the biochemical effects mediated by angiotensin II receptors This is the first publication to analyze in detail the structure activity relationships for both peptide and nonpeptide angiotensin II receptor agonists and antagonists It also presents the pharmacological effects mediated by angiotensin II receptors both in the periphery and in the brain

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