



IMMUNOTOXICOLOGY OF DRUGS AND CHEMICALS: AN EXPERIMENTAL AND CLINICAL APPROACH

VOLUME 1 | PRINCIPLES AND
METHODS OF IMMUNOTOXICOLOGY



J. DESCOTES

Clinical Immunotoxicology

Philip Wexler



Clinical Immunotoxicology:

Clinical Immunotoxicology David S Newcombe, 1992-06-30 This text is a comprehensive source of information on the toxic effects of environmental industrial and pharmacological agents on the human immune system Focusing entirely on human immunotoxicology without relying on animal models the book explains the basic principles of immunotoxicology defines the mechanisms by which immunotoxins act describes the clinical expression of immunotoxic disorders in the lung skin and other target organs offers practical guidelines for early detection and control of host defense dysfunctions and explores strategies for assessing the short and long term health effects of new and old chemicals and biologicals The book includes extensive discussions on the role of low dose chronic immunosuppression in cancer as well as on specific environmental and occupational immunotoxins and immunotoxic drugs used in hematology anesthesiology oncology and transplantation surgery

Principles and Methods of Immunotoxicology Jacques Descotes, 2004-10-14 This is a review of clinical adverse effects on the human immune system that may occur following drug treatments and chemical exposures Current and prospective models and assays that can be used to predict these adverse effects in animal toxicity studies or in human beings are described

Introduction To Immunotoxicology Jacques Descotes, 2003-09-02 This text provides a concise and comprehensive introduction to key immunotoxicological issues for all those interested in but with no prior knowledge of this area of toxicology The first section explores the health consequences of immunotoxicity namely the adverse effects related to chemically induced immunosuppression and immunostimulation hypersensitivity reactions and autoimmune diseases with an overview of major immunotoxicants The second part describes the latest methods used to detect and evaluate preclinically and clinically the unexpected immunotoxic effects of xenobiotics Trends in implementing strategies and recent changes to the regulatory aspects are also considered The third section examines possible future developments including In Vitro methods biomarkers of immunotoxicity and risk assessment

Information Resources in Toxicology, Volume 1: Background, Resources, and Tools, 2020-05-16 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

Information Resources in Toxicology P.J. Bert Hakkinen, Asish Mohapatra, Steven G. G. Gilbert, 2009-08-19 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

Information Resources in Toxicology Philip Wexler, 2000 History K D Watson P Wexler and J Everitt Highlights in the History of Toxicology Selected References in the History of Toxicology A Historical Perspective of Toxicology Information Systems Books and Special Documents G L Kennedy Jr P Wexler N S Selzer

and L A Malley General Texts Analytical Toxicology Animals in Research Biomonitoring Biomarkers Biotechnology Biotoxins Cancer Chemical Compendia Chemical Cosmetics and Other Consumer Products Chemical Drugs Chemical Dust and Fibers Chemical Metals Chemicals Pesticides Chemicals Solvents Chemical Selected Chemicals Clinical Toxicology Developmental and Reproductive Toxicology Environmental Toxicology General Environmental Toxicology Aquatic Environmental Toxicology Atmospheric Environmental Toxicology Hazardous Waste Environmental Toxicology Terrestrial Environmental Toxicology Wildlife Ep

Immunotoxicology of Drugs and Chemicals Jacques Descotes, 2004

Handbook of Human Toxicology Edward J. Massaro, 1997-07-09 Covering some of the most important topics in modern toxicology the Handbook of Human Toxicology is a unique and valuable addition to the current literature It addresses issues answers questions and provides data related to Within each of these five major sections are several carefully selected topics that reflect the current state of human to

Clinical Pharmacy, 1992

Comprehensive Toxicology, 2017-12-01 Comprehensive Toxicology Third Edition Fifteen Volume Set discusses chemical effects on biological systems with a focus on understanding the mechanisms by which chemicals induce adverse health effects Organized by organ system this comprehensive reference work addresses the toxicological effects of chemicals on the immune system the hematopoietic system cardiovascular system respiratory system hepatic toxicology renal toxicology gastrointestinal toxicology reproductive and endocrine toxicology neuro and behavioral toxicology developmental toxicology and carcinogenesis also including critical sections that cover the general principles of toxicology cellular and molecular toxicology biotransformation and toxicology testing and evaluation Each section is examined in state of the art chapters written by domain experts providing key information to support the investigations of researchers across the medical veterinary food environment and chemical research industries and national and international regulatory agencies Thoroughly revised and expanded to 15 volumes that include the latest advances in research and uniquely organized by organ system for ease of reference and diagnosis this new edition is an essential reference for researchers of toxicology Organized to cover both the fundamental principles of toxicology and unique aspects of major organ systems Thoroughly revised to include the latest advances in the toxicological effects of chemicals on the immune system Features additional coverage throughout and a new volume on toxicology of the hematopoietic system Presents in depth comprehensive coverage from an international author base of domain experts

Biologic Markers in Immunotoxicology National Research Council, Division on Earth and Life Studies, Commission on Life Sciences, Board on Environmental Studies and Toxicology, Committee on Biologic Markers, Subcommittee on Immunotoxicology, 1992-02-01 Are environmental pollutants threatening the human immune system Researchers are rapidly approaching definitive answers to this question with the aid of biologic markers sophisticated assessment tools that could revolutionize detection and prevention of certain diseases This volume third in a series on biologic markers focuses on the human immune system and its response to environmental toxicants The authoring committee provides direction for continuing development of biologic

markers with strategies for applying markers to immunotoxicology in humans and recommended outlines for clinical and field studies This comprehensive up to date volume will be invaluable to specialists in toxicology and immunology and to biologists and investigators involved in the development of biologic markers

Immunotoxicology Strategies for Pharmaceutical Safety Assessment Danuta J. Herzyk, Jeanine L. Bussiere, 2008-08-28 An important reference which provides an overview of the current and recently introduced methodologies for testing the immunotoxic risks in drug candidates Helps readers understand the significance of the methods and approaches to immunotoxicology testing Aids drug scientists in industry and regulatory areas to consolidate approaches to immunotox testing Offers a definitive assessment of nonclinical models to study the toxic impacts bio pharmaceuticals can have on the immune system Includes chapter authors from across the pharma industry bringing a real world and applied perspective to immunotox testing

Toxicological Profile for Hexachlorobenzene, 2002 *Alternatives to Laboratory Animals*, 2009 *Toxicological Profile for Malathion*, 2003

Recombinant DNA Technology and Applications Aleš Prokop, 1991 *Drug-induced Immune Diseases* Jacques Descotes, 1990 Immunotoxicology is a major new area of toxicology Recent developments in this field encompass pre clinical rodent studies as well as predictive assessment Little is known of clinical immunotoxicology The first part of this book includes coverage of clinical patterns diagnosis and mechanisms of drug induced immune diseases i e clinical consequences of immunodepression and immunoenhancement immuno allergic and pseudo allergic hypersensitivity reactions and auto immune diseases The second part includes drug by drug coverage of immunotoxicity as reported in the medical literature

Principles and Methods for Assessing Direct Immunotoxicity Associated with Exposure to Chemicals World Health Organization, 1996 A comprehensive guide to general strategies and specific methods for testing the immunotoxicity of chemicals in animal models and humans Addressed to those seeking a basic introduction to the field as well as specialist researchers the book takes its focus from growing concern in scientific and public communities about the capacity of environmental agents to disrupt normal immune functions and thus increase susceptibility to tumours and infectious diseases Compounds known to adversely affect the immune system are numerous and include drugs pesticides solvents halogenated and aromatic hydrocarbons and metals The book draws on considerable recent progress in understanding the immunological consequences of chemical insults as well as increasingly sophisticated methodologies for assessing such effects Close to 1000 references are included in this authoritative guide The book opens with a detailed basic introduction to immunotoxicology An extensive explanation of the function histophysiology and pathophysiology of the immune system emphasizes features that can aid the understanding and interpretation of the pathological changes caused by immunotoxic insults Chapter two on the health impact of selected immunotoxic agents gives illustrative examples for some 30 chemicals that have been shown to exert immunotoxic effects in laboratory animals and for an additional seven groups of chemicals known to disturb immune functions in humans For each brief discussions illustrate the chemical s distinct immunosuppressive properties and the

mechanisms by which it exerts its toxic effects on the immune system Chapter three provides detailed descriptions of a number of tests used in a tiered approach to the assessment of immunotoxicity Against this background specific nonfunctional and functional tests for the assessment of immunotoxicology in experimental animals are presented and explained in full detail Information on individual tests includes an explanation of why the test is important the types of data it can yield and exactly how it should be performed Also included are sections offering advice on assessments in non rodent species in vitro approaches and approaches using biomarkers in epidemiological studies and monitoring The chapter concludes with a discussion of good laboratory practices for immunotoxicology studies and procedures for the validation of tests Chapter five explains the much more complicated procedures needed to assess immunotoxicity in humans An explanation of general questions to be considered when designing epidemiological studies is followed by presentation of three recommended testing schemes proposed by WHO and other agencies for preliminary evaluation of individuals exposed to immunotoxicants Specific assays for assessing immune status are also described The final chapter outlines a step by step process of risk assessment specific to the evaluation of potentially immunotoxic chemicals

Immunotoxicology of Drugs and Chemicals: Principles and methods of immunotoxicology Jacques Descotes,2004 This third thoroughly revised edition written by a renowned expert in this rapidly expanding field is a welcome and timely publication in the field of experimental and clinical immunotoxicology Immunotoxicology is a young but rapidly expanding area of toxicology Since the second edition of this book was published in 1988 an increasing amount of data has resulted in the publication of many articles and reviews This book covers the many general facets of current immunotoxicology clinical experimental mechanistic and regulatory aspects including a chapter on the immune system giving toxicologists unfamiliar with immunology the opportunity to acquire the minimal knowledge necessary to conduct and interpret immunotoxicity studies A comprehensive chapter on adverse effects in relation to immunotoxicity is included in order to predict and understand the toxic effects of drugs and other chemicals in living beings An effort is made to answer one of the perhaps most confusing issues confronting the student of immunotoxicology namely the identification of what constitutes an immunotoxic response and what does not Researchers from different disciplines have shown interest in this new field and presented results of their work on immunotoxicological issues from extremely varied perspectives As a bridging discipline between immunology and toxicology immunotoxicology is genuinely multidisciplinary reflected in this excellent book

Toxicology of the Immune System Robert Burrell,Dennis K. Flaherty,Leonard J. Sauers,1992

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