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Currently known as: Immunopharmacology and Immunotoxicology (1987 - current)

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Continuing the tradition set by the first and second editions, each a bestseller in its own right, the third edition of Immunotoxicology and Immunopharmacology provides reviews of environmental agents, updated to reflect the latest information on how these agents influence immune system function and health.

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The application of immunotoxicology to the toxicologic assessment of drugs of abuse is a field of increasing importance. Interest in the effects of drugs of abuse on the immune system has greatly increased as a result of the AIDS epidemic.

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Immunopharmacology is all about combinatorial therapy—the use of multiple antitumor drugs that have different mechanisms of action. In addition, combinatorial treatment regimens often combine drugs that target different phases of the cell cycle. Optimal treatment protocols combine drugs that have nonoverlapping toxicities.

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The journal Immunopharmacology and Immunotoxicology is devoted to pre-clinical and clinical drug discovery and development targeting the immune system. Research related to the immunoregulatory effects of various compounds, including small-molecule drugs and biologics, on immunocompetent cells and immune responses, as well as the immunotoxicity exerted by xenobiotics and drugs. Only research

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The second edition of this text has been revised and refocused to reflect the transformation of immunotoxicology from a subdiscipline of toxicology to an independent area of research that can best be described as "environmental immunology." New chapters discuss the role of immune mediators in liver, lung, and skin toxicity, in regulating chemical- metabolizing enzymes, and in the immunosuppression produced by ultraviolet light. More emphasis is placed on the clinical consequences of immunotoxicity, as well as the interpretation of experimental data for predicting, human health risk.; The second edition is divided into three major sections: immunosuppression, autoimmunity, and hypersensitivity. This new organization of the text allows for a more thorough treatment of these phenomena, with greater attention to test methods, theoretical considerations, and clinical implications. The book includes many chapters on specific environmental agents, therapeutic drugs, biological agents, and drugs of abuse, as well as on immune-mediated toxicity in specific organ systems.

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The rapid developments in immunology in recent immunomodulatory drugs can be distinguished years have dramatically expanded our knowledge of from their beneficial therapeutic effects. mammalian host defence mechanisms. The molecu- Currently, it is only possible to obtain an overview lar mechanisms of cellular interactions during of these various aspects of immunopharmacology immune responses have been unravelled, the intra- by reading a range of immunological, pharmacol- cellular responses involved in signal transduction ical, diagnostic and toxicological literature. Good delineated and an ever-increasing number of soluble immunological textbooks are available, while mediators of immune and inflammatory reponses immunopharmacology is covered mainly in terms of have been discovered. the inflammatory response. Principles of Immuno- The initial result of this explosion of knowledge pharmacology is intended to provide for the first time has been to provide the researcher and the clinician in a single volume a basic understanding of with an arsenal of diagnostic tools with which the immunological mechanisms, a review of important immunological bases of disease processes can be immunodiagnostic tools and a description of the investigated. This has made disease diagnosis much main pharmacological agents which modify the more precise, enabling the physician to tailor therapy immune response, together with an introduction to much more closely to the individual patient's needs. immunotoxicology. As such we hope that it will be However, better understanding of disease processes useful as a reference text for physicians, researchers only provides a gradual improvement in therapy. This and students with a rudimentary knowledge of is because the new molecular targets that have been immunology.

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Considerable scientific and political interest has been expressed, paralleling public concern about the effects of chemicals on the immune system and the implications of those effects for health. Coupled with speculation about the magnitude and extent of the problem is discussion of needs for predictive testing and regulatory control measures. The first international seminar on the immunological system as a target for toxic damage was held in Luxembourg in 1984. It was organized by the International Programme on Chemical Safety (United Nations Environment Programme-International Labour Office World Health Organization) and the Commission of the European Communities with the support of the US Environmental Protection Agency and the National Institute of Environmental Health Sciences (USA) and the participation of the International Society of Immunopharmacology. In view of the perceived importance of immunotoxicity, it was considered necessary to organize a follow-up meeting. Thus, an international workshop on the immunotoxicity of metals and immunotoxicology was held in Hanover, Federal Republic of Germany, on 6-10 November 1989.

Principles of Immunopharmacology provides a unique source of essential knowledge on the immune

response, its diagnosis and its modification by drugs and chemicals. The 4th edition of this internationally recognized textbook has been revised to include recent developments, but continues the established format, dealing with four related fields in a single volume, thus obviating the need to refer to several different textbooks. The first section of the book, providing a basic introduction to immunology and its relevance for human disease, has been updated to accommodate new immunological concepts, particularly the role of epigenetics and the latest understanding of cancer immunology. The second section on immunodiagnostics offers a topical description of widely used molecular techniques and a new chapter on imaging techniques. This is followed by a systematic coverage of drugs affecting the immune system, including natural products. This third section contains 15 updated chapters, covering classical immunopharmacological topics such as anti-asthmatic, anti-rheumatic and immunosuppressive drugs, but also deals with antibiotics, plant-derived and dietary agents, with new chapters on monoclonal antibodies, immunotherapy in sepsis and infection, drugs for soft-tissue autoimmunity and cell therapy. The book concludes with a chapter on immunotoxicology and drug safety tests. Aids to the reader include a two-column format, glossaries of technical terms and appendix reference tables. The emphasis on illustrations is maintained from the first three editions. The book is a valuable single reference for undergraduate and graduate medical and biomedical students, postgraduate chemistry and pharmacy students, researchers in chemistry, biochemistry and the pharmaceutical industry and researchers lacking basic immunological knowledge, who want to understand the actions of drugs on the immune system.

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.

History of Immunotoxicology offers the first book-length exploration of the development and importance of the field of immunotoxicology. Toxicology is evolving with the identification of new toxic hazards and the marketing of new chemicals. As preventive measures are implemented to reduce risks, including banning of chemicals or applications of one given chemical, current toxicologists may not be aware of the actual toxicity potential of chemicals when marketing or used in the past. Knowledge of what has occurred before can help to give context and understanding of current and future debates. Although immunotoxicology is one of the youngest areas of toxicology – its origin dates back to approximately half a century – a number of significant adverse effects and safety issues have been described, which deserve a historical perspective. History of Immunotoxicology describes the adverse health effects involving the immune system, hypersensitivity and autoimmunity. It also explores new avenues of research and immunotoxicity evaluation, as well as regulatory aspects of immunotoxicology, and the withdrawal/banning from the market of several approved drugs and chemicals due to their immunotoxic effects. Clinical manifestations of immunotoxicity, such as anaphylaxis, opportunistic infections, lymphomas, cytokine storm, and immunotherapy will be addressed. Finally, the book considers how the recent past can provide insights on the future practice of immunotoxicology. This book will be of interest to students and researchers in government, industry, and academia who have an interest in immunotoxicology. Examines the development of immunotoxicology Provides context to current debates about actual toxicity potential of chemicals Covers major developments and areas of immunotoxicology

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