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*2012 PROSE Award, Clinical
Medicine: Honorable Mention
The vast majority of
medically important*

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pathogens infect their host across a body surface such as the skin, or across a mucosal tissue such as the respiratory tract or intestines, as these sites are the ones exposed to the external environment. By

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focusing on immunity at mucosal and body surfaces this book presents a fresh, new approach to the teaching of immunology. After an introduction to the basic structure of the immune system, the book looks at

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two important families of signalling molecules: cytokines and chemokines, before covering the workings of the mucosal immune system. It continues by examining immunity against the four major groups of

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pathogens - viruses, bacteria, fungi and parasites, and concludes by looking at disorders of the immune system, mucosal tumour immunology and the process of vaccination. A fresh, new approach to the

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subject focusing on mucosal and body surfaces. Describes the mucosal immune systems of the gastrointestinal, respiratory and urogenital tracts, as well as the skin. Details the important roles of cytokines and chemokines

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in an immune response. Separate chapters devoted to immunity against viruses, bacteria, fungi and parasites. Includes chapter summaries, boxes with topics of special interest and an extensive glossary. Clearly

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written and well-illustrated in full colour throughout. Students across a range of disciplines, including biology, biochemistry, biomedicine, medicine and veterinary sciences, will find this

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book invaluable, both as an introduction to basic immunology and as a guide to mucosal immune defence mechanisms.

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for a global perspective of this complex field.

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*Immunobiology (IADCI),
represented by the editors.
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series of short overviews
that report on the current
state of various relevant
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The Cytokines of the Immune System

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provides an introduction to

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the complement system. The intention was to create a primer that would provide the basic knowledge of complement required for either research or clinical medicine in diseases involving the complement

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aspects of complement function are followed by chapters on the molecular genetics of complement and the role of complement in different diseases. Key topics discussed include the activation of complement via

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the classical pathway and the alternative pathway; complement mediators of inflammation; opsonization and membrane complement receptors; assembly and functions of the terminal components; and complement-

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dependent mechanisms of virus neutralization. This book has been written primarily for students and scientists who have not been specifically trained in complement research.

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responses in vitro. This is followed by separate chapters on topics such as the role of macrophages in making antigen more immunogenic and less tolerogenic; functional distinctions between

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macrophages at different sites; and the role of the macrophage in antigen recognition by T lymphocytes. Subsequent chapters examine interactions between macrophages and lymphocytes

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in the production of interferon and other mediators of cellular immunity; macrophage cell lines and their uses in immunobiology; and cytotoxic macrophages in allograft rejection.

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Principles & Practice

***Immunological Aspects of
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contains papers presented
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histocompatibility antigens; the reproductive immunology of the mouse, horse, and sheep; and fetal and neonatal immunity. Subsequent chapters present studies of immunization of several

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species with either the hypothalamic hormone LH-RH, pituitary gonadotrophins, or ovarian steroids; and studies directed towards efforts to enhance animal production by either active or passive

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commercially important species such as turkeys and ducks, and to ecoimmunology summarizing the knowledge of immune responses in free-living birds often in relation to reproductive success. The

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book contains a detailed description of the avian innate immune system, encompassing the mucosal, enteric, respiratory and reproductive systems. The diseases and disorders it

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the young infant, and there is an increasing focus from different stakeholders to use this approach for other infections of importance to protect these vulnerable groups. The aim of this

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immuno-oncology in different cancer types and toxicities associated with immunotherapy. While immunotherapy has revolutionized the treatment landscape of several solid malignancies, several

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challenges still exist. Only a subset of patients derive clinical benefits; some do not respond at all, and others respond initially, only for their disease to progress later. Because these drugs can activate a

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broad range of immune cells, patients suffer from a unique set of side effects known as immune-related adverse events. As more immunotherapeutic agents are used in the clinic, it is important to provide updates

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MS is an example of a T-cell mediated autoimmune disease, wherein there is an autoimmune attack on the integrity of the central nervous system.

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This edition is thoroughly revised and up to date with significant developments in the field, especially on the topic of innate immunity.

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Fundamental Immunology

The Immune System

Why immunobiology?

Immunology is the study of the immune system - the internal defence reactions that protect the body from invading

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microorganisms and the diseases they cause. Spectacular advances have been made over the last few decades in understanding how the immune system works. There is no doubt that these advances have been made possible by concentrating research on a few

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species of animals, most notably mouse and man. The main motivation for studying the human system, for example, has been to further the cause of medicine. Indeed, the roots of modern immunology can be traced back to pioneering studies of vaccines

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against viruses and bacteria. The vaccine n. a mouse has become the favoured non-human animal in which to study preparation, usually derived from an immunity, both in relation to protection from microorganisms, but also at infectious pathogen, a

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more fundamental level. The term 'immunology' has become virtually administered to provide synonymous with the study of the immune systems of humans and mice. protective immunity without causing disease.

'Immunobiology' in contrast is a

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broader field, encompassing the immune systems of all animals. It is the study of the origins and evolution of immune systems in general, and the underlying role that microorganisms play in the microorganism. n. an process. organism too small to be seen

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clearly with the The penalty for this focussed effort has been a disproportionately naked eye; often used mammalocentric database.

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Fundamental Immunology

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