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The new edition of the acclaimed
bestseller, always praised for offering
cutting edge material in the context of

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landmark experiments, in a student friendly format built on pedagogy not usually found in immunology texts. Organ transplantation is a life-saving surgical procedure through which the functionality of a failing organ system can be restored. However, without the life-long administration of

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immunosuppressive drugs, the recipient ' s immune system will launch a massive immune attack that will ultimately destroy the graft. Although successful at protecting the graft from an immune attack, long-term use of immunosuppressive drugs leads to serious complications (e.g., increased

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risk of infection, diabetes, hypertension, cardiovascular disease, and cancer). Moreover, recipients suffer from limited long-term graft survival rates due to the inability of current treatments to establish tolerance to the transplanted tissues. Thus, there is a great medical need to

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understand the complex network of immune system interactions that lead to transplant rejection so that new strategies of intervention can be determined that will redirect the system toward transplant acceptance while preserving immune competence against offending agents. In the past

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20 years, the discovery and growing understanding of the positive and negative regulators of the activation of the immune system have fostered new interventional procedures targeting one or the other. While pre-clinical results proved the validity of these strategies, their clinical implementation

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has been troublesome. These results underscore the need for additional methods to determine the most effective interventions to prevent long-term transplant rejection. New tools of genomics, proteomics and metabolomics are being implemented in powerful analyses that promise the

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development of better, safer personalized treatments. In parallel, theoretical modeling has emerged as a tool that transcends investigations of individual mechanistic processes and instead unravels the relevant mechanisms of complex systems such as the immune response triggered by

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a transplant. In this way, theoretical models can be used to identify important behavior that arises from complex systems and thereby delineate emergent properties of biological systems that could not be identified studying single components. Employing this approach,

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interdisciplinary collaborations among immunologists, mathematicians, and system biologists will yield novel perspectives in the development of more effective strategies of intervention. The aim of this Research Topic is to demonstrate how new insight and methods from theoretical

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and experimental studies of the immune response can aid in identifying new research directions in transplant immunology. First, techniques from various theoretical and experimental studies with applications to the immune response will be reviewed to determine how they

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can be adapted to explore the complexity of transplant rejection. Second, recent advances in the acquisition and mining of large data sets related to transplant genomics, proteomics, and metabolomics will be discussed in the context of their predictive power and potential for

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optimizing and personalizing patient treatment. Last, new perspectives will be offered on the integration of computational immune modeling with transplant and omics data to establish more effective strategies of intervention that promote transplant tolerance.

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A guide to the practice of stem cell transplantation, its status in the treatment of various disorders and the problems that arise after transplantation, aimed at the whole transplant team. An up to date guide to best practice in the use of stem cell transplantation, covering current status

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in the treatment of malignant and non-malignant conditions, practical aspects and problems such as infection and graft versus host disease. Has a practical, accessible approach with free use of algorithms, list tables. Aimed at the whole transplant team - this is an interdisciplinary field.

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International contributor team with editors in the UK and USA. Illustrated in colour throughout.

Rejection and Tolerance

Primer to the Immune Response

Examination of Effector Cells and

Molecules Required for Destruction of

Epithelial Tumours

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Immune Biology of Allogeneic
Hematopoietic Stem Cell
Transplantation

Epidermal Langerhans Cells

On Effector Mechanisms in Allograft
Rejection

This publication reviews the
immunology of transplant rejection as

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the basis for modern immunosuppression protocols. It also looks at the current criteria for selection of kidney transplant recipients and donors.

Xenotransplantation involves the transplantation of cells, tissues, and whole organs from one species to

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another. Interest in animal-to-human xenotransplants has been spurred by the continuing shortage of donated human organs and by advances in knowledge concerning the biology of organ and tissue rejection. The scientific advances and promise, however, raise complex questions that

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must be addressed. This book considers the scientific and medical feasibility of xenotransplantation and explores the ethical and public policy issues surrounding the possibility of renewed clinical trials. The volume focuses on the science base of xenotransplantation, public health risks

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of infectious disease transmission, and ethical and public policy issues, including the views of patients and their families.

Immunobiology of the Macrophage presents an account of the state of knowledge of the immunobiology of the macrophage. The book's

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contributors—immunologists of diverse scientific and geographic backgrounds—have been encouraged to give personal accounts of developments in their special fields of interest as well as critical surveys of the backgrounds leading to these developments. The book begins with a

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study on the functions of macrophages in the initiation and regulation of antibody 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 in the production of interferon and other mediators of cellular immunity; macrophage cell

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lines and their uses in immunobiology;
and cytotoxic macrophages in allograft
rejection.

Proceedings of the 25th Conference
on Transplantation and Clinical
Immunology, Lyon 24-26 May 1993
ABO-incompatible Organ
Transplantation

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Basic Concepts for Interdisciplinary
Applications

Effector mechanisms in allograft
rejection

Immunobiology of Organ
Transplantation

On effector mechanisms in allograft
rejection

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Epidermal Langerhans
Cells focuses on
epidermal Langerhans
cells (LCs) and the
important role they play
in the induction of
contact hypersensitivity

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and graft rejection.

This in-depth work discusses how these antigen-presenting cells are modulated by various physicochemical agents (such as UV light) and

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how they can be infected by the AIDS virus. It also reveals that cytokines mediate their development into potent T cell-stimulatory dendritic cells. This

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comprehensive review
covers important
experimental details and
methods, and fascinating
information on LCs. It
also provides an
overview of the immune

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system as it relates to the skin in health and disease. This up-to-date publication is an indispensable resource for all investigative and clinical

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dermatologists, as well as immunologists interested in antigen-presenting cells.

Immunologists, perhaps understandably, most often concentrate on the

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human immune system, an anthropocentric focus that has resulted in a dearth of information about the immune function of all other species within the

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animal kingdom. However, knowledge of animal immune function could help not only to better understand human immunology, but perhaps more importantly, it

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could help to treat and avoid the blights that affect animals, which consequently affect humans. Take for example the mass death of honeybees in recent

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years - their demise,
resulting in much less
pollination, poses a
serious threat to
numerous crops, and thus
the food supply. There
is a similar

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disappearance of frogs
internationally,
signaling ecological
problems, among them
fungal infections. This
book aims to fill this
void by describing and

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discussing what is known about non-human immunology. It covers various major animal phyla, its chapters organized in a progression from the

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simplest unicellular organisms to the most complex vertebrates, mammals. Chapters are written by experts, covering the latest findings and new

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research being conducted about each phylum. Edwin L. Cooper is a Distinguished Professor in the Laboratory of Comparative Immunology, Department of

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Neurobiology at UCLA's
David Geffen School of
Medicine.

Immune Biology of
Allogeneic Hematopoietic
Stem Cell

Transplantation: Models

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in Discovery and
Translation, Second
Edition once again
provides clinical and
scientific researchers
with a deep
understanding of the

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current research in this field and the implications for translational practice. By providing an overview of the immune biology of HSCT, an explanation of

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immune rejection, and detail on antigens and their role in HSCT success, this book embraces biologists and clinicians who need a broad view of the deeply

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complex processes
involved. It then moves
on to discuss the
immunobiology mechanisms
that influence graft-
versus-host disease
(GVHD), graft-versus-

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leukemia effect, and transplantation success. Using illustrative figures, highlighting key issues, describing recent successes, and discussing unanswered

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questions, this book
sums up the current
state of HSCT to enhance
the prospects for the
future. The second
edition is fully revised
and includes new

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chapters on microbiome,
metabolism, kinase
targets, micro-RNA and
mRNA regulatory
mechanisms, signaling
pathways in GVHD, innate
lymphoid system

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development, recovery
and function in GVHD,
genetically engineered T-
cell therapies, immune
system engagers for GVHD
and graft-versus-tumor,
and hematopoietic cell

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transplant for tolerance induction in solid organ grafts. Brings together perspectives from leading laboratories and clinical research groups to highlight advances

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from bench to the
bedside Guides readers
through the caveats that
must be considered when
drawing conclusions from
studies with animal
models before

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correlating to clinical
allogeneic hematopoietic
stem cell
transplantation (HSCT)
scenarios Categorizes
the published advances
in various aspects of

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immune biology of
allogeneic HSCT to
illustrate opportunities
for clinical
applications

Heart Transplantation

Cardiac Allograft

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Rejection

Cytokines, Effector
Mechanisms and Target
Structures in
Interstitial and
Vascular Rejection
Kuby Immunology

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Chronic Kidney Disease,
Dialysis, and
Transplantation E-Book
Immunologic Signatures
of Rejection

Introductory Immunology quickly
acquaints readers with natural

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immune responses manifesting in diseases and disorders. The book presents a complete picture of natural defenses to infectious agents, as well as the mechanisms that lead to autoimmune dysfunction. In addition, it examines immunologically based

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diseases, giving the reader sufficient knowledge to make sound clinical decisions leading to better treatment outcomes. Introductory Immunology is aimed at researchers, postgraduates, or any scientifically inclined reader interested in

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immunology. No prior expertise in medical, biochemical, or cellular science is needed to benefit from the clear presentation of immunology concepts in this book. Quick, concise introduction to immunological concepts Breaks down all of

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immunology into manageable,
logically digestible building blocks
Geared toward readers without
medical, biochemical, or cellular
expertise

A Historical Perspective on Evidence-
Based Immunology focuses on the

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results of hypothesis-driven, controlled scientific experiments that have led to the current understanding of immunological principles. The text helps beginning students in biomedical disciplines understand the basis of immunologic knowledge,

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while also helping more advanced students gain further insights. The book serves as a crucial reference for researchers studying the evolution of ideas and scientific methods, including fundamental insights on immunologic tolerance, interactions

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of lymphocytes with antigen TCR and BCR, the generation of diversity and mechanism of tolerance of T cells and B cells, the first cytokines, the concept of autoimmunity, the identification of NK cells as a unique cell type, the structure of antibody molecules and

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identification of Fab and Fc regions, and dendritic cells. Provides a complete review of the hypothesis-driven, controlled scientific experiments that have led to our current understanding of immunological principles Explains

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the types of experiments that were performed and how the interpretation of the experiments altered the understanding of immunology
Presents concepts such as the division of lymphocytes into functionally different populations in their

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historical context Includes
fundamental insights on immunologic
tolerance, interactions of lymphocytes
with antigen TCR and BCR, and the
generation of diversity and
mechanism of tolerance of T and B
cells

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Heart transplantation remains one of the major scientific achievements of twentieth century medicine. During the past four decades, it has evolved from an unproven experimental surgical technique to the most effective form of therapy for

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refractory end-stage heart disease. It has captured the public's imagination and expanded our understanding of fundamental immunologic mechanisms that are responsible for cellular and humorally-mediated immunity. Despite its successes, many

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clinical and scientific problems remain. One or more bouts of acute cellular or humoral (vascular) rejection will occur in over 75% of transplant recipients despite current immunosuppressive strategies. Further, rejection directly results in

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approximately 20% of post-transplant deaths and is believed to play a major role in the development of late allograft dysfunction and coronary vasculopathy. This book by international experts in the fields of transplantation medicine,

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immunobiology and cardiac imaging provides the reader with an up-to-date, concise summary of the latest developments in the diagnosis and treatment of acute cardiac rejection. It is axiomatic that a more complete understanding of the pathogenic

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processes involved in rejection will ultimately lead to its prevention. This volume will be useful to transplant cardiologists, cardiovascular surgeons, cardiac pathologists and transplant scientists who seek to prolong the lifespan and improve the

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quality of life of their transplant recipients.

Janeway's Immunobiology

Hematopoietic Stem Cell

Transplantation in Clinical Practice

Allorecognition by Leukocytes of the

Adaptive Immune System

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Introductory Immunology

A Companion to Brenner and
Rector's The Kidney

Effector mechanisms in rat renal
allograft rejection

This book is addressed to researchers,
practicing physicians, and surgeons in the

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field of organ transplantation, as well as the medical students, residents, and fellows. The topics covered include the religious concepts in organ transplantation, embryonic organ transplantation, tolerance, normothermic graft perfusion, pharmacogenetics of immunosuppressors, viral transmission in

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organ transplantation, pediatric and split-liver transplantation, portopulmonary hypertension, mechanical circulatory support, ex vivo lung perfusion, and ABO-incompatible kidney transplantation. Janis Kuby's groundbreaking introduction to immunology was the first textbook for the course actually written to be a

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textbook. Like no other text, it combined an experimental emphasis with extensive pedagogical features to help students grasp basic concepts. Now in a thoroughly updated new edition, Kuby Immunology remains the only undergraduate introduction to immunology written by teachers of the course. In the Kuby

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tradition, authors Judy Owen, Jenni Punt, and Sharon Stranford present the most current concepts in an experimental context, conveying the excitement of scientific discovery, and highlight important advances, but do so with the focus on the big picture of the study of immune response, enhanced by

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unsurpassed pedagogical support for the first-time learner.

Written in the same engaging conversational style as the acclaimed first edition, *Primer to The Immune Response, 2nd Edition* is a fully updated and invaluable resource for college and university students in life sciences,

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medicine and other health professions who need a concise but comprehensive introduction to immunology. The authors bring clarity and readability to their audience, offering a complete survey of the most fundamental concepts in basic and clinical immunology while conveying the subject's fascinating appeal. The

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content of this new edition has been completely updated to include current information on all aspects of basic and clinical immunology. The superbly drawn figures are now in full color, complemented by full color plates throughout the book. The text is further enhanced by the inclusion of numerous

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tables, special topic boxes and brief notes that provide interesting insights. At the end of each chapter, a self-test quiz allows students to monitor their mastery of major concepts, while a set of conceptual questions prompts them to extrapolate further and extend their critical thinking. Moreover, as part of the Academic Cell

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line of textbooks, Primer to The Immune Response, 2nd Edition contains research passages that shine a spotlight on current experimental work reported in Cell Press articles. These articles also form the basis of case studies that are found in the associated online study guide and are designed to reinforce clinical connections.

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Complete yet concise coverage of the basic and clinical principles of immunology Engaging conversational writing style that is to the point and very readable Over 200 clear, elegant color illustrations Comprehensive glossary and list of abbreviations

Immunobiology of the Macrophage

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T Cell Clones

The Endothelium and Proximal Tubular
Epithelium as a Target in the Rejection
Response

Immune Effector Mechanisms in Disease
Advances in Comparative Immunology
Currently, individuals interested in

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seeking an in-depth discussion of transplantation immunology must seek individual articles published in several journals, or extrapolate information from various non-transplant immunology textbooks. The purpose of this text is to provide the reader with a single source of information for the basic science of

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immunobiology of organ transplantation. It is unique that it focuses on immunobiology from the basic research side, with an emphasis on the cellular and molecular levels. The readers will be physicians, scientists, and graduate students interested and engaged in the study of immunology as it relates to allo-

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and xenotransplantation. This book is designed to be the reference standard for the immunobiology of transplantation. This book discusses the mechanisms leading to immune-mediated tissue rejection following the hypothesis that independent of the disease process the final effector mechanism is shared by

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most (but not all) pathologies and it is relatively simple. The book covers evidence gathered to support the thesis by studies performed in humans during rejection or in experimental models and will focus particularly (but not exclusively) on the analysis of the rejected tissue rather than the systemic

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circulation. Several disease processes are discussed including example of chronic inflammatory process without resolution of the pathologic process and acute one with resolution of the pathologic process (clearance of pathogen, rejection of tumor) or unwanted tissue destruction (allograft rejection, autoimmunity).

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*Proceedings of the 25th Conference on
Transplantation and Clinical
Immunology 24--26 May 1993
Activation and Effector Function of
Unconventional Acute Rejection
Pathways Studied in a Hepatocellular
Allograft Model
Xenotransplantation*

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Cellular and Humoral Effector

*Mechanisms of Acute Cardiac Allograft
Rejection in a Rat Model*

Cellular and Molecular Effector

Mechanisms of Islet Allograft Rejection

*Immunological mechanisms of chronic
graft rejection*

the endothelium and proximal tubular

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*epithelium as a target in the rejection
response*

The term allorecognition refers to the series of mechanisms used by an individual's immune system to distinguish its own cells and tissues from those of another

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individual belonging to the same species. During evolution, different cells and molecules of both innate and adaptive immune systems have been selected to recognize and respond to antigens expressed by allogeneic cells, but

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not autologous cells (alloantigens). This research topic focuses on allorecognition by lymphocytes of the adaptive immune system and its involvement in rejection or tolerance of allogeneic transplants. T and B cells

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recognizing alloantigens via specific receptors become activated and undergo proliferation and differentiation into different types of effector and memory cells. Allorecognition by lymphocytes occurs regularly

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during pregnancy upon trafficking of both maternal and fetal cells. In this setting, allorecognition triggers an alloresponse that is protective towards the fetus thus preventing abortion. Protective alloimmunity

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is mediated through cooperation between different lymphocytes and antigen presenting cells (APCs), as well as regulatory mediators and receptors. Likewise, certain transplants placed in organs and tissues called

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immune-privileged sites such as the eye, the central nervous system and the testis elicit protective rather than destructive adaptive immune responses. Therefore, under certain circumstances, allorecognition by

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regulatory lymphocytes (Tregs and Bregs) can lead to tolerance of alloantigens. In contrast, allorecognition by T cells in non-immune privileged sites and under inflammatory conditions leads to a destructive immune response.

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Indeed, after transplantation of most allogeneic organs and tissues, activation of pro-inflammatory T cells (TH1 and TH17), which recognize donor MHC proteins (direct pathway) or peptides derived from donor

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MHC and minor antigens (indirect pathway), leads to graft rejection. This inflammatory response leads to the differentiation of allospecific cytotoxic T cells as well as production of donor specific

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antibodies by B cells, both of which contribute to the destruction of the transplant. In this Research Topic, we describe the different pathways of allorecognition by T cells involved in allograft rejection, as well as

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the role of different antigen presenting cells and graft-derived microvesicles (exosomes) involved in this process. Another aspect of this Research Topic addresses the essential role of alloreactive memory T cells in allograft

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rejection and resistance to transplant tolerance induction in laboratory rodents, as well as non-human primates and patients. Indeed, it has become evident that laboratory mice display very few memory alloreactive T cells pre-

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transplantation, essentially due to the fact that they are raised in pathogen-free facilities. In contrast, primates display high frequencies of alloreactive memory T cells, either generated through prior exposure to

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allogeneic MHC molecules or via cross-reactivity with microbial antigens. We and others have provided ample evidence showing that this feature accounts for differences in terms of tolerance susceptibility between laboratory

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rodents and patients. This implies that further investigation of tolerance protocols in laboratory mice should be performed using "dirty mice" i.e., mice raised in non-sterile conditions. In summary, this Research Topic

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addresses key aspects of allorecognition by lymphocytes and alloantigen presentation by dendritic cells, and specifically how these processes shape our immune system and govern the rejection or tolerance of allogeneic

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tissues and organs.

These results characterize the T cell dependent immune mechanisms of rejection and the conditions that elicit or suppress them. These studies have productively contributed to the

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present understanding of the effector phenotype and mechanisms of both conventional and unconventional allograft rejection pathways and highlight some possible new targets for therapy to combat rejection

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occurring through unconventional immune pathways.

Contains expanded content on economics and outcomes of treatment, as well as acute kidney injury. Covers hot topics such as the genetic causes of chronic

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kidney disease, ethical challenges and palliative care, and home hemodialysis. Discusses the latest advances in hypertensive kidney disease, vitamin D deficiency, diabetes management, transplantation, and more.

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Provides a clear visual understanding of complex information with high-quality line drawings, photographs, and diagnostic and treatment algorithms.

The Effector Mechanisms

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Mediating Corneal Allograft
Rejection

Transplant Rejection and
Tolerance: Advancing the Field
through Integration of
Computational and Experimental
Investigations

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Frontiers in Transplantology
Immunology

Transplantation in the Rabbit
Models in Discovery and
Translation

***This book introduces the clinical
application of ABO-incompatible***

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transplantation. In the first part, it starts with the history, blood group antigen, antibody associated with ABO blood type, pathophysiology and pathology and related knowledge. In the second part, it covers clinical experience sharing of ABO-

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***incompatible of heart, liver, lung
and kidney transplantation. It
provides a systematic
methodologies and protocols.
Studies on Mechanisms of Skin
Graft Rejection
A Historical Perspective on
Evidence-Based Immunology***

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***Antigen-specific T Regulatory and
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Modulation of the Effector
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