

# IMMUNOLOGY

## The Making of a Modern Science

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# Immunology The Making Of A Modern Science

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## **Immunology The Making Of A Modern Science:**

Immunology: The Making of a Modern Science Richard B. Gallagher, Jean Gilder, Gustav J.V. Nossal, Gaetano Salvatore, 1995-07-14 Immunology has progressed in spectacular fashion in the last four decades Studies of the response to infectious agents transplanted organs and tumours and the potential to manipulate that response and the study of the immune system as a model system in molecular cell biology have yielded dramatic advances in our understanding of the mechanisms of immunity The field has attracted a continuous stream of the brightest theoretical and experimental scientists for over forty years This book conveys the philosophies and approaches of sixteen of the most successful of these scientists in the form of a series of narratives that describe the circumstances that led to a major discovery in immunology Contributors not only recall an exciting period of research that helped shape modern immunology but set it in the personal context of place and time Jacques Miller for example describes the discovery of the function of the thymus Rolf Zinkernagel explains how experiments on viral immunity led to the discovery of MHC restriction and Susumu Tonegawa provides an account of how antibody gene structure was defined Medically important discoveries include descriptions of early studies of autoimmunity by Noel Rose and of tumour immunology by George and Eva Klein Far from being a collection of disinterested historical accounts this volume comprises a series of passionately biographical personal essays that provide an unusually intimate insight into the scientific process This book will be essential and fascinating reading for all those with an interest in immunology and in the life sciences in general For students and teachers this will provide the background necessary for a true understanding of immunology and to place subsequent discoveries in perspective **The Cambridge History of**

**Science: Volume 6, The Modern Biological and Earth Sciences** David C. Lindberg, Peter J. Bowler, Ronald L. Numbers, Roy Porter, 2003 This book in the highly respected Cambridge History of Science series is devoted to the history of the life and earth sciences since 1800 It provides comprehensive and authoritative surveys of historical thinking on major developments in these areas of science on the social and cultural milieus in which the knowledge was generated and on the wider impact of the major theoretical and practical innovations The articles are written by acknowledged experts who provide concise accounts of the latest historical thinking coupled with guides to the most important recent literature In addition to histories of traditional sciences the book covers the emergence of newer disciplines such as genetics biochemistry and geophysics The interaction of scientific techniques with their practical applications in areas such as medicine is a major focus of the book as is its coverage of controversial areas such as science and religion and environmentalism A History of Transplantation Immunology Leslie Brent, 1996-11-18 Those entering the field of transplantation are frequently unaware of the topics historical roots and even of the background on which modern discoveries in tolerance histocompatibility antigens and xenotransplantation are based A History of Transplantation Immunology is an account written by one of the founding fathers of the field of how tissue and organ transplantation has become one of the most successful branches of late

20th century medicine The book helps place the work of contemporary scientists into its proper context and makes fascinating reading for immunologists in all stages of their career Describes landmarks in immunology and places them in historical context Beautifully written by one of the founding fathers of the field Portrays the surprising history of events in a colorful and readable manner Contains biographical sketches of some of the pioneers Illustrates the development of key ideas in immunology tolerance graft rejection and transplantation Foreword by Ray Owen **Paul Ehrlich's Receptor**

**Immunology** Arthur M. Silverstein, 2001-11-17 Paul Ehrlich's Receptor Immunology The Magnificent Obsession describes the background to Paul Ehrlich's immunological works and theories and delves into the substance of his experiments in great detail By exploring these early developments in immunology the book lays the foundation for modern concepts providing immunologists biomedical researchers and students the context for the discoveries in their field The selectionist theory of antibody formation Kinetics of primary and secondary antibody response Quantitative methods of measurement of antigens and antibody Demonstration of passive transfer of immunity from mother to foetus **The Compatibility Gene** Daniel

Michael Davis, 2014 There are far reaching consequences of the way our body has evolved to fight disease This book describes how genes link our struggle with disease to compatibility with others the wiring of our brain and success in pregnancy **Immunity** Alfred I. Tauber, 2017 Machine generated contents note Preface Acknowledgements Introduction Chapter 1 A History of the Immune Self Chapter 2 Whither Immune Identity Chapter 3 Individuality Revised Chapter 4 Immune Cognition Chapter 5 Eco immunology Chapter 6 A New Biology Epilogue Endnotes References 650 **Allergy**

Mark Jackson, 2007-08-15 It attacks through foods animals and innumerable chemical combinations It is among the most common and potentially lethal afflictions known It is the allergy the subject of Mark Jackson's fascinating chronicle Jackson investigates how the allergy became the archetypal disease of civilization as it transformed from a fringe malady of the wealthy into one of the greatest medical disorders of the twentieth century Jackson also examines the social and economic impact of the allergy as it catalyzed a new health conscious culture and created the wealth of some of the largest companies in the world today Whether cats crabgrass or cheese is the source of your daily misery Jackson's engaging and in depth account is an invaluable addition to every bookshelf **Crafting Immunity** Jennifer Keelan, 2017-03-02 Immunity is

as old as illness itself yet historians have only just begun to take up the challenge of reconstructing the modern transformation of attempts to protect against disease Crafting Immunity assembles in one volume the most recent efforts of an international group of scholars to place the diverse practices of immunity in their historical contexts It is this diversity that provides the book with its greatest source of strength Collectively the papers in this volume suggest that it was the craft like small scale and local conditions of clinical medicine that turned the immunity of individuals and populations into biomedical objects That is to say the modern conception of immunity was at least as much the product of the work of healing as it was the systematic result of discoveries about the immune system Working outside the narrow confines of laboratory

histories Crafting Immunity is the first attempt to set the problems of immunity into a variety of social technological institutional and intellectual contexts It will appeal not only to historians and sociologists of health but also to social and cultural historians interested in the biomedical creation of modern health regimens **Reader's Guide to the History of Science** Arne Hessenbruch,2013-12-16 The Reader's Guide to the History of Science looks at the literature of science in some 550 entries on individuals Einstein institutions and disciplines Mathematics general themes Romantic Science and central concepts Paradigm and Fact The history of science is construed widely to include the history of medicine and technology as is reflected in the range of disciplines from which the international team of 200 contributors are drawn

**Intolerant Bodies** Warwick Anderson,Ian R. Mackay,2014-11-15 A history of autoimmunity that validates the experience of patients while challenging assumptions about the distinction between the normal and the pathological Winner of the NSW Premier's History Award of the Arts NSW Autoimmune diseases which affect 5 to 10 percent of the population are as unpredictable in their course as they are paradoxical in their cause They produce persistent suffering as they follow a drawn out often lifelong pattern of remission and recurrence Multiple sclerosis lupus rheumatoid arthritis and type 1 diabetes the diseases considered in this book are but a handful of the conditions that can develop when the immune system goes awry Intolerant Bodies is a unique collaboration between Ian Mackay one of the prominent founders of clinical immunology and Warwick Anderson a leading historian of twentieth century biomedical science The authors narrate the changing scientific understanding of the cause of autoimmunity and explore the significance of having a disease in which one's body turns on itself The book unfolds as a biography of a relatively new concept of pathogenesis one that was accepted only in the 1950s In their description of the onset symptoms and course of autoimmune diseases Anderson and Mackay quote from the writings of Charles Dickens Edgar Allan Poe Joseph Heller Flannery O'Connor and other famous people who commented on or grappled with autoimmune disease The authors also assess the work of the dedicated researchers and physicians who have struggled to understand the mysteries of autoimmunity Connecting laboratory research clinical medicine social theory and lived experience Intolerant Bodies reveals how doctors and patients have come to terms often reluctantly with this novel and puzzling mechanism of disease causation **A History of Organ Transplantation** David Hamilton,2013-12-21 A History of Organ Transplantation is a comprehensive and ambitious exploration of transplant surgery which surprisingly is one of the longest continuous medical endeavors in history Moreover no other medical enterprise has had so many multiple interactions with other fields including biology ethics law government and technology Exploring the medical scientific and surgical events that led to modern transplant techniques Hamilton argues that progress in successful transplantation required a unique combination of multiple methods bold surgical empiricism and major immunological insights in order for surgeons to develop an understanding of the body's most complex and mysterious mechanisms Surgical progress was nonlinear sometimes reverting and sometimes significantly advancing through luck serendipity or helpful accidents of nature The first book of its

kind A History of Organ Transplantation examines the evolution of surgical tissue replacement from classical times to the medieval period to the present day This well executed volume will be useful to undergraduates graduate students scholars surgeons and the general public Both Western and non Western experiences as well as folk practices are included **The Immune Response** Tak W. Mak, Mary E. Saunders, 2005-11-11 The Immune Response is a unique reference work covering the basic and clinical principles of immunology in a modern and comprehensive fashion Written in an engaging conversational style the book conveys the broad scope and fascinating appeal of immunology The book is beautifully illustrated with superb figures as well as many full color plates This extraordinary work will be an invaluable resource for lecturers and graduate students in immunology as well as a vital reference for research scientists and clinicians studying related areas in the life and medical sciences Current and thorough 30 chapter reference reviewed by luminaries in the field Unique single voice ensures consistency of definitions and concepts Comprehensive and elegant illustrations bring key concepts to life Provides historical context to allow fuller understanding of key issues Introductory chapters 1 4 serve as an Immunology Primer before topics are discussed in more detail *Proteins, Enzymes, Genes*, *The Caring Heirs of Doctor Samuel Bard* Peter Wortsman, 2019-04-09 The alumni of Columbia University Vagelos College of Physicians and Surgeons VP S have made remarkable strides in medicine academia public health and industry In this they follow in the footsteps of Samuel Bard 1742 1821 a prominent early American physician and a founder of what would become VP S In *The Caring Heirs of Doctor Samuel Bard* Peter Wortsman offers a selection of profiles of Columbia educated doctors who have made a fundamental difference in the lives of others The physicians profiled in this book represent the complete spectrum of MDs They have charted new fields of medicine resolved long standing biochemical mysteries discovered the causes and cures of diseases developed vaccines pioneered surgical procedures helped halt epidemics and cared for imperiled populations Some have run hospitals medical schools universities the National Institutes of Health the National Library of Medicine the Centers for Disease Control and Prevention city health departments and major pharmaceutical concerns Others practiced at the White House climbed mountains or flew to outer space Still others wrote pioneering papers edited prestigious medical journals and authored prize winning books and best selling novels In each case the clinical training scientific thoroughness and humanistic values inculcated at Columbia had a formative influence on their thinking and practice In telling their stories *The Caring Heirs of Doctor Samuel Bard* illustrates the importance of clinical rigor and humanistic caring in the practice of medicine and offers readers a rare insight into the heart and soul of American medicine at its best **Monoclonal Antibodies** James W. Goding, 1996-02-26 Monoclonal Antibodies now have applications in virtually all areas of biology and medicine and much of the world s biotechnology industry has its foundations in the exploitation of this technology The Third Edition of this well established book meets the needs of both newcomers to the area and experienced researchers by providing an integrated treatment of both the production and application of monoclonal antibodies As in previous editions

detailed and critical accounts of the theory production purification fragmentation storage and radiolabelling of monoclonal antibodies are given along with descriptions of their use in antigen characterization affinity chromatography and immunofluorescence The present volume has been comprehensively updated to cover recent rapid advances particularly with respect to the applications of molecular biology the use of antibodies in cloning and heterologous expression of genes immunohistology and phage display libraries Since the previous edition there has been a growing trend towards the replacement of procedures using radioactive isotopes and the current edition incorporates these newer technologies The text is oriented towards problems solving and makes it easy to adapt each procedure to individual needs Extensive cross referencing a glossary and a comprehensive index make this book an essential reference This book will be vital both for laboratories already producing or using monoclonal antibodies and for workers in many disciplines who are contemplating their use Provides an integrated treatment of both the production and application of monoclonals in cell biology biochemistry and immunology Gives detailed and critical accounts of the theory production purification storage and relabelling of monoclonals and their use in antigen characterization affinity chromatography and immunofluorescence Comprehensively updated to cover the rapid advances that have occurred since the publication of the Second Edition Biomedical Platforms Peter Keating,Alberto Cambrosio,2003 An examination of postwar medicine based on the notion of the biomedical platform the theoretical and clinical meeting ground between the normal and the pathological *Antibodies for Treating Cancer* Melvyn Little,2021-05-10 This book presents a compact overview of the history evolution and fascinating novel applications of antibodies for the treatment of cancer leading the reader step by step to the latest advances Interesting anecdotes together with self explanatory and clearly structured figures with a humorous touch facilitate the reader's understanding of this complex topic Clinical cases round out the book making it a valuable aid for professionals in their everyday practice The growing importance of the topics covered here was highlighted by the joint award of the 2018 Nobel Prize in Chemistry to Frances H Arnold directed evolution of enzymes George P Smith phage display of peptides and Sir Gregory P Winter phage display of antibodies Furthermore the 2018 Nobel Prize in Physiology or Medicine was awarded to James P Allison and Tasuku Honjo for their discovery of cancer therapy by inhibition of negative immune regulation Many of the antibodies that are now being brought to market target precisely these immune checkpoint modulators The book addresses a broad readership ranging from professionals and experts in the field to residents and medical students **Chronic Illness, Vulnerability and Social Work** Liz Price,Liz Walker,2015-05-01 Whilst the body has recently assumed greater sociological significance there has been less engagement in social work and social care on the bodily experience of health illness and disease This innovative volume redresses the balance by exploring chronic illness and social work through the specific lens of autoimmunity engaging in wider debates around vulnerability resistance and the lived experience of ongoing ill health Moving beyond existing conceptualisations of vulnerability as an issue of mental distress ageing child protection and poverty

Price and Walker demonstrate the role that society has to play in actively engaging the physical body rather than working around and through it. The book focuses on auto immune conditions such as lupus, multiple sclerosis, rheumatoid arthritis and scleroderma. Conditions like these allow for an exploration of the materiality of illness which exacerbates social and economic vulnerability and may precipitate personal and social crises requiring a variety of interventions and support. The risks and challenges associated with chronic illness include disruptions to a sense of self and identity, altered relationships and the renegotiation of roles and responsibilities in a variety of relationships in addition to an economic impact with the potential for disruption to employment status and financial insecurity. This text opens up a range of debates around some of the central concerns of the social work profession including vulnerability, ill health and independence. It will be of interest to scholars and students of social work, nursing, disability studies, medicine and the social sciences. Annual Review of Immunology Paul, Hastings Pop, Paul VI Hastings VI Hastings Hastings, 1999-04

**HIV/AIDS: Immunochemistry, Reductionism and Vaccine Design** Marc H V Van Regenmortel, 2019-11-26. This book gathers a series of pivotal papers on the development of an HIV/AIDS vaccine published in the last two decades. Accompanied by extensive comments putting the material into an up to date context, all three parts of the book offer a broad overview of the numerous unsuccessful attempts made in recent years to develop a preventive HIV vaccine. Providing a detailed review and analysis of studies published from 1998 to the present day, it examines the likely reasons for the failure to develop an HIV vaccine despite multi million dollar investments.



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