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New Research on Immunology Immunology and Immune System Disorders Progress in Immunology Research Trends in Immunology Research Methods in Immunology Recent Research Developments in Immunology Structural Immunology Recent Research Developments in Immunology Immunology Of Nude Mice Encyclopedia of Immunology Research Crafting Immunity Milestones in Immunology Immunology: Overview and Laboratory Manual History of the Basel Institute for Immunology Human Immunology Topics in Vaccine Adjuvant Research Methods in Immunology The Mouse in Biomedical Research Immunology Current Topics in Microbiology and Immunology Immunology of Infection Methods in Immunology The Year in Immunology Immunology Interaction of Immune and Cancer Cells Tumor Immunology and Immunotherapy Nucleic Acids in Immunology Current Topics in Microbiology and Immunology Avian Immunology Invertebrate Immunity In Vitro Methods in Cell-Mediated Immunity Recent Advances in Avian Immunology Research Advances in Immunology Current Topics in Microbiology and Immunology / Ergebnisse der haunted house ghosts 8 book

2023-01-21

Mikrobiologie und Immunitätsforschung Human Immunology Continued Fascination – A Tribute to a Giant in Immunology, Dr. William E. Paul Introduction to Molecular Vaccinology Visualizing Immunity The Mouse in Biomedical Research Immuno Systems Biology

New Research on Immunology

2005

immunology is the study of the body s protection from foreign macromolecules or invading organisms and the responses to them these invaders include viruses bacteria protozoa or even larger parasites in addition immune responses are developed against our own proteins and other molecules in autoimmunity and against our own aberrant cells in tumour immunity the first line of defense against foreign organisms are barrier tissues such as the skin that stop the entry of organism into our bodies a second line of defense is the specific or adaptive immune system which may take days to respond to a primary invasion that is infection by an organism that has not hitherto been seen this new book brings together new research spanning the globe dealing with this extremely important subject

Immunology and Immune System Disorders

2014-05-14

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even larger parasites in addition immune responses are developed against our own proteins and other molecules in autoimmunity and against our own aberrant cells in tumour immunity the first line of defence against foreign organisms are barrier tissues such as the skin that stop the entry of organism into our bodies a second line of defence is the specific or adaptive immune system which may take days to respond to a primary invasion that is infection by an organism that has not hitherto been seen this new book brings together new research from around the globe dealing with this extremely important subject

Progress in Immunology Research

2005

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Trends in Immunology Research

2005

this book presents a comprehensive overview of important immune molecules and their structure function relationships the immune system is highly complex consisting of a network of molecules cells tissues and organs and the immune reaction is involved in various physiological as well as pathological processes including development self tolerance infection immunity and cancer numerous molecules participate in immune recognition inhibition and activation and these important immune molecules can be roughly divided into cell surface receptors intracellular receptors and intracellular signaling molecules the study of how these immune molecules function at molecular level has laid the foundation for understanding the immune system the book provides researchers and students with the latest research advances concerning the structural biology of key immune molecules pathways and offers immunologists essential insights into how these immune molecules function

Methods in Immunology

1983

first published in 1989 immunology of nude mice presents a discussion of the nature of this viable laboratory mutant this new volume updates all immunological information contained in the sparse literature concerning nude mice it comprehensively explores some of the fre quent questions associated with nude mice such as if the mutant is really athymic or if the thymic defect causes all of the other deviations from brain to gonads the practical consequences of hairlessness of the mutant are also consid ered illustrated with original photographs and tables doc umenting novel facts in immunology and physiology of nude mice this publication is valuable for investigators and stu dents entering the field

Recent Research Developments in Immunology

1999

this book presents current research in the study of immunology topics discussed include tlr agonists as immune adjuvants modulating immune response with cpg oligodeoxynucleotide through the skin evolution of immunosuppression in liver transplantation the role of pharmacogenomics in tailoring immunosuppressive therapy for liver transplant recipients sunlight induced immunosuppression antibiotic resistance and probiotics antibiotic resistance in food lactic acid bacteria and nanobiotics to combat bacterial drug resistance

Structural Immunology

2019

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

Recent Research Developments in Immunology

1999

milestones in immunology based on collected papers contains scientific milestones relating to the history of medicine over the past two centuries the book highlights the contributions of pioneering scientists whose discoveries have paved the way for researchers working in the field of immunology as the science of immunology grew from knowledge that survivors of common infectious diseases rarely contracted them again the book uses this as a central thesis helping readers understand how the adaptive immune system aids in defense against pathogens in addition the book covers special fields such as immunohistochemistry immunogenetics and immunopathology for the past century immunology has fascinated and inspired some of the greatest scientists of our time numerous nobel prizes have been awarded for fundamental discoveries in immunology from paul ehrlich work on antibodies 1908 to the studies of zinkernagel and doherty 1986 elucidating mechanisms of cell mediated immunity provides on update on developments since the publication of nobel prize winning research for fundamental discoveries in immunology discusses the changing theories and technologies that guided the field lists all the important discoveries and books in the field explains in detail the many nobel prize winning contributions of immunologists provides recognition of the scientists who were pioneers of landmark discoveries in immunology

Immunology Of Nude Mice

2020-03-25

a two in one text providing teaching lab students with an overview of immunology as well as a lab manual complete with current standard exercises section i of this book provides an overview of the immune system and immunity and includes review questions problem sets case studies inquiry based questions and more to provide students with a strong foundation in the field section ii consists of twenty two lab exercises focused on key concepts in immunology such as antibody production cell separation cell function immunoassays th1 th2 cytokine detection cell and tissue culture methods and cell and molecular biology techniques appendices include safety information suggested links and readings and standard discipline processes protocols and instructions

Encyclopedia of Immunology Research

2011-10

lectures parties and nobel prizes living and researching at the basel institute for immunology by the early seventies of the 20th century the basel institute for immunology had become one of the largest and certainly the most prominent immunology institutes in the world its lean structure was highly successful and the guality of the research and its reputation remained outstandingly high throughout the three decades it existed this book describes the institute s history from its conception and the laying of the foundation stone in 1969 by the pharmaceutical company roche to the triumph of three nobel prizes 1984 and 1987 for niels k jerne georges k hler and susumu tonegawa can all this be portrayed to make the layman understand it and the scientist relish it indeed the book succeeds in tuning in to what fascinates students advanced researchers and scientists historians policy makers and philanthropists alike the narrative reveals many aspects of the institute s life and also describes all its research and achievements immunologists at every level from beginners to old hands will find something of interest to them in this history and some readers will even make use of the huge database documents pictures and films linked to the book by hundreds of gr codes

Crafting Immunity

2017-03-02

the recipients of grants from the dana human immunology and dana irvington fellowship programs are brought together in this volume in their contributions the participating scientists summarize their patient based research in the areas of cancer infectious disease allergy and autoimmunity also included are contributions from two guest speakers on b cell leukemia and autoimmune diabetes

Milestones in Immunology

2017-06-13

topics in vaccine adjuvant research provides a concise focused review of the immunological basis of adjuvant activity the first section of the book contains several chapters that discuss key issues in cellular immunology such as antigen processing and presentation cytokine regulation of immune responses and mucosal immunology the second section consists of brief chapters on the mechanism of action of several adjuvants including il 2 nonionic block polymers and cholera toxin the major goals of this book are to define what is known about

the mechanisms of adjuvant activity show how research in cellular immunology can be used to help understand adjuvant action and define possible areas where adjuvants might be useful probes for dissecting basic immunological processes immunologists microbiologists and infectious disease researchers will find this book an invaluable addition to their reference library

Immunology: Overview and Laboratory Manual

2021-08-01

immunology the third volume in the four volume set the mouse in biomedical research is a completely new addition to this series dedicated to mouse immunology it is based on the vast body of knowledge which has made the mouse the model of choice when studying immunity in man arguably more is known about the immune system in mice than any other species except man in large part this is due to the power of genetic engineering to delineate molecular mechanisms in this volume we present an overview to mouse immunology including both the innate and adaptive immune systems followed by 15 chapters each dealing with a specific area of immunology in the mouse these chapters illustrate the power of genetic engineering in dissecting each component of the immune response from the development of lymphoid tissues to signal transduction pathways in activated cells

History of the Basel Institute for Immunology

2017

immunology offers the most contemporary perspective on the science available providing a clear easy to follow introduction to the discipline suitable for undergraduate students in a course where students often get lost in vast amounts of detail and the sheer complexity of the immune response immunology helps students see the big picture with an approachable narrative that presents the exquisite details of immunology while emphasizing the connections between key themes that students so often lose sight of when learning the material immunology features an exceptional illustration program and includes simple clear explanations abundant examples and features that unravel the mysteries of immunology through accounts of classical discoveries and recent cutting edge research since many students in the course are preparing to enter careers in research medicine and other health professions an appropriate amount of applied knowledge and clinical content is included in the narrative features and engaging case studies students will easily be able to make connections moving beyond memorizing just what we know to truly understanding how we know what we know and why

Human Immunology

2005

the study of the genetic regulation of immune response to natural multidetermi nant immunogens was undertaken by the method of bidirectional selective breed ing of high or low antibody responder lines of mice five selections are described selection i carried out for agglutinin responsiveness to sheep erythrocytes and pigeon erythrocytes alternated in each generation selection ii carried out for agglutinin responsiveness to sheep erythrocytes repeated in each generation selection iii and selection iv performed respectively for agglutinin response to flagellar or somatic antigens of salmonella typhimurium and salmonella oranienburg alternated in each generation selection v performed for passive agglutinin response to bovine serum albumin and rabbit gamma globulin alternated in each generation in each selection the character investigated is polygenic high and low responder lines diverge progressively during the selective breeding the maximal interline separation selection limit is reached in the 7th 16th generations high and low responder lines at selection limit are considered homozygous for the character submitted to se ection their variance is therefore only due to environ mental effects the difference in agglutinin titre between high and low lines is 220 fold in selection i 103 fold in selection ii 90 fold in selection iii 85 fold in selection iv and 275 fold in selection v the partition of genetic and environmental variances in the foundation populations of the five selections is established the proportion of genetic variance is 60 in selection i 49 in selection ii 51 in selection iii 47 in selection iv and 76 in selection v

Topics in Vaccine Adjuvant Research

1990-12-19

immunology of infection 3e edited by two leading experts in the field presents the most appropriate up to date experimental approaches in the detail required for modern microbiological research focusing on the methods most useful for the microbiologist interested in analyzing host pathogen relationships this volume will be essential reading for all researchers working in microbiology immunology virology mycology and parasitology this new edition of immunology of infection provides ready to use recipes and the latest emerging techniques as well as novel approaches to the tried and tested established methods included in the successful first edition methods in microbiology is the most prestigious series devoted to techniques and methodology in the field established for over 30 years methods in microbiology will continue to provide you with tried and tested cutting edge protocols to directly benefit your research

Methods in Immunology

1970

this volume of the year in immunology series features reviews of topics in human immunology including b1 b cells bcl 2 family members wiskott aldrich syndrome reverse vaccinology anti b2 glycoprotein i the role of autoimmunity in thromboangiitis obliterans buerger s disease long pentraxin ptx3 as a paradigm for humoral pattern recognition molecules and control of inflammatory heart disease by cd4 t cells

The Mouse in Biomedical Research

2006-12-05

contains numerous extensively labeled colour illustrations in the text

Immunology

2021

the tumor environment is a dynamic network that includes cancer cells immune cells fibroblasts endothelial cells extracellular matrix cytokines and receptors the aim of this book is to summarize the role of these components especially immune cells in tumor suppression and or progression and describe in detail why tumor cells can survive and spread in spite of the antitumor response of immune cells since immunotherapy is an attractive approach to cancer therapy this book also provides information on the two main strategies monoclonal antibodies and adaptive t cell immunotherapy with a focus on recent human clinical trials the book provides a state of the art comprehensive overview of immune cells in cancer and is an indispensable resource for scientists and medical doctors working and or lecturing in the field of cancer research and immunology

Current Topics in Microbiology and Immunology

2012-12-06

a comprehensive account of cancer immunity and immunotherapy examining recent results current areas of interest and the specific issues that are affecting the research and development of vaccines it provides insight into how these problems may be overcome as viewed by leaders in the field

Immunology of Infection

2010-09-23

two fields have played a leading role in biomedical research in recent years the biochemistry of nucleic acids and immunology yet with the exception of those aspects which have been concerned with antibody synthesis as an example of protein synthesis there was until recently a lack of direct association between the two fields until guite recently the antigenicity of nucleic acids was still in doubt and indeed represented a controversial subject also the exact role of the various nucleic acids in various stages of antibody synthesis was uncertain these skepticisms and uncertainties disappeared rapidly in the last few years new experimental approaches brought the realization that nucleic acids under appropriate conditions are indeed immunogenic and that the resulting antibodies can furnish new tools for the exploration of the mplecular structure of the all important family of nucleic acid molecules at the same time the recognition of the antigenicity of nucleic acids brought a new level of understanding to certain auto immune diseases and pro vided new material for the exploration of the role of a carrier in immune responses side by side with this development was the almost explosive development of new experimental approaches and new ideas pertaining to the problem of antibody formation nucleic acids in their various forms were recognized as playing an expected major role in the activation of antibody forming cells

perhaps less to be expected was the role they can playas non specific stimulators of antibody formation

Methods in Immunology

1970

the second edition of avian immunology provides an up to date overview of the current knowledge of avian immunology from the ontogeny of the avian immune system to practical application in vaccinology the book encompasses all aspects of innate and adaptive immunity in chickens in addition chapters are devoted to the immunology of other 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 book contains a detailed description of the avian innate immune system encompassing the mucosal enteric respiratory and reproductive systems the diseases and disorders it covers include immunodepressive diseases and immune evasion autoimmune diseases and tumors of the immune system practical aspects of vaccination are examined as well extensive appendices summarize resources for scientists including cell lines inbred chicken lines cytokines chemokines and monoclonal antibodies the world wide importance of poultry protein for the human diet as well as the threat of avian influenza pandemics like h5n1 and heavy reliance on vaccination to protect commercial flocks makes this book a vital resource this book provides crucial information not only for poultry health professionals and avian biologists but also for comparative and veterinary immunologists graduate students and veterinary students with an interest in avian immunology with contributions from 33 of the foremost international experts in the field this book provides the most up to date review of avian immunology so far contains a detailed description of the avian innate immune system reviewing constitutive barriers chemical and cellular responses it includes a comprehensive review of avian toll like receptors contains a wide ranging review of the ecoimmunology of free living avian species as applied to studies of population dynamics and reviews methods and resources available for carrying out such research

The Year in Immunology

2013-06-24

it can be seen that the insects are the still attracting most research and researchers however an increasing interest is emerging to study new invertebrate groups especially those where the genome is known even though drosophila has been and still is an excellent model for immune studies it is now clear that there are great differences between immune responses in drosophila and that of several other invertebrates which indeed calls for more research on other invertebrates

Immunology

2011

in vitro methods in cell mediated immunity focuses on methods for approaching cell mediated immune responses in vitro this book provides in simplified in vitro systems a basis for understanding the mechanism of the in vivo response and discusses useful and reliable in vitro tests for cell mediated immune responses in humans where in vivo testing is often not possible the topics discussed include factors and activities produced in vitro by lymphocytes biological implications of in vitro phenomena and requirements and prospects for improved methodology the leucocyte migration technique for in vitro detection of cellular hypersensitivity in man proliferation of human blood lymphocytes stimulated by antigen in vitro and virus plaque assay for antigen sensitive are also elaborated in this text this publication is a good reference for microbiologist and immunologists including medical students researching on in vitro models for cell mediated immune reactions

Interaction of Immune and Cancer Cells

2013-11-26

explores the latest developments in the application of biotechnology to vaccination against poultry disease presents basic avian immunology experimental models applications and issues currently under investigation topics covered include gene cloning use of monoclonal antibodies t cell cloning and the development of anti idiotopic antibodies as alternative surrogate antigen

Tumor Immunology and Immunotherapy

2014

advances in immunology

Nucleic Acids in Immunology

2013-11-20

biomedical research on human subjects is notoriously difficult because of the difficulties in controlling the variables locating a large enough sample size and managing the ethical issues that have to be considered for every experiment this volume contains contributions from scientists who have received grants from the dana foundation and their work in the complex and diverse field of human immunology is notable for both its breadth and its depth patient based research in the areas of cancer infectious disease allergy inflammation and autoimmunity are summarized it is through clinical studies that findings in animal models make their way into the arsenal of treatments available for human patients and this volume demonstrates the progress of translational research in human immunology note annals volumes are available for sale as individual books or as a journal for information on institutional journal subscriptions please visit blackwellpublishing com nyas academy members please contact the new york academy of sciences directly to place your order nyas org members of the new york academy of science receive full text access to the annals online and discounts on print volumes please visit nyas org membercenter join aspx for more information about becoming a member

Current Topics in Microbiology and Immunology

2012-02-23

dr william e paul 1936 2015 was the leader of the national institutes of health nih immunology community and his career is without parallel in the field of immunology he was the chief of the laboratory of immunology national institute of allergy and infectious diseases niaid from 1970 at the age of 34 until his death his groundbreaking contributions to the field of immunology including the discovery of interleukin il 4 led to more than 600 publications over half a century he also played an important role in the establishment of the nih vaccine research center while he was the director of the nih office of aids research furthermore dr paul was a shining icon and an international giant of contemporary immunology he was a genius and a living encyclopedia of immunology the author of the textbook fundamental immunology since its inception to the 7th edition in 2013 and the editor of the annual review of immunology from its inaugural issue in 1983 until 2011 in his last book immunity he discussed the three laws of immunology universality tolerance and appropriateness these capture the essence of dr paul as well as the field dr paul had an enormous impact on the research career of his trainees many of whom became leaders in the field of immunology including drs charles janeway ronald schwartz laurie glimcher and mark davis dr paul was an intelligent generous humble but optimistic man he was also an inspirational and thoughtful leader colleague and friend he inspired and encouraged people around him in every possible way as his trainees and or colleagues we miss him greatly and dedicate this special research

topic to his memory we thank all the authors who participated in this collection as well as other colleagues and friends of dr paul s who have supported us in a series of events after dr paul s passing finally we would like to thank the frontiers in immunology for providing such a wonderful platform for remembering dr paul s remarkable life

Avian Immunology

2012-12-02

this textbook provides an easy to understand introduction to the complex topic of vaccine research and development it gives a comprehensive though clearly arranged insight to the most important aspects of molecular vaccinology leading from the basics in immunology to design of vaccines and mode of action of vaccines to the actual formulation manufacturing and registration of vaccines the volume is therefore a valuable text about modern vaccinology for graduate students and a basic introduction for newcomers in vaccine design and development

Invertebrate Immunity

2011-06-28

researchers have used a variety of techniques over the past century to gain fun mental

insights in the field of immunology and as technology has advanced so too has the ability of researchers to delve deeper into the biological mechanics of immunity the immune system is exceedingly complex and must patrol the entire body to protect us from foreign invaders this requires the immune system to be highly mobile and adaptable able to respond to diverse microbial challenges while maintaining the ability to distinguish self from a foreign invader this latter feature is of great importance because the immune system is equipped with toxic mediators and a failure in self non self discrimination can result in serious diseases fortunately in most cases the immune system operates within the framework of its elegant design and protects us from diverse microbial challenges without initiating disease because the immune system is not confined to a single tissue a comprehensive understanding of immunity requires that research be conducted at the molecular cellular and systems level immune cells often find customized solutions to h dling microbial insults that depend on the tissue s in which the pathogen is found

In Vitro Methods in Cell-Mediated Immunity

2014-06-28

annotation immunology the third volume in the four volume set the mouse in biomedical research is a completely new addition to this series dedicated to mouse immunology it is

based on the vast body of knowledge which has made the mouse the model of choice when studying immunity in man arguably more is known about the immune system in mice than any other species except man in large part this is due to the power of genetic engineering to delineate molecular mechanisms in this volume we present an overview to mouse immunology including both the innate and adaptive immune systems followed by 15 chapters each dealing with a specific area of immunology in the mouse these chapters illustrate the power of genetic engineering in dissecting each component of the immune response from the development of lymphoid tissues to signal transduction pathways in activated cells

Recent Advances in Avian Immunology Research

1989

immuno systems biology aims to study the immune system in the more integrated manner on how cells and molecules participate at different system levels to the immune function through this book kumar selvarajoo introduces to physicists chemists computer scientists biologists and immunologists the idea of an integrated approach to the understanding of mammalian immune system geared towards a researcher with limited immunological and computational analytical experience the book provides a broad overview to the subject and some instruction in basic computational theoretical and experimental approaches the book links complex immunological processes with computational analysis and emphasizes the importance of immunology to the mammalian system

Advances in Immunology

1967-01-01

Current Topics in Microbiology and Immunology / Ergebnisse der Mikrobiologie und Immunitätsforschung

2012-12-06

Human Immunology

2006-01-24

Continued Fascination - A Tribute to a Giant in Immunology, Dr. William E. Paul

2019-06-19

Introduction to Molecular Vaccinology

2016-03-11

Visualizing Immunity

2009-06-12

The Mouse in Biomedical Research

2007

Immuno Systems Biology

2013-10-01

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