
RECENT ADVANCES IN IMMUNOLOGY

RESEARCH COLLECTION

Recent Advances In Immunology

**Rupesh K. Srivastava, Naibedya
Chattopadhyay, Katharina Schmidt-
Bleek, Pradyumna Kumar
Mishra, Massimo De Martinis**

Recent Advances In Immunology:

Recent Advances in Immunology Asuman U. Muftuoglu, 2012-12-06 The aim of this publication is to present the up to date views of the many eminent immunologists who contributed to the scientific program of the 5th European Immunology Meeting held in Istanbul in June 1982 Recent Advances in Immunology is intended for immunologists both in the basic sciences and in clinical medicine It provides under one cover an assemblage of information about fundamental problems in immunology and clinical applications The book opens with Prof E A Kabat's review of the problems in understanding the structural basis of antibody complementarity The succeeding four papers deal with the role of macrophages in the various stages of immune phenomena The first of the two articles on T cells reports a product necessary for suppressor activity and the second describes an analysis of precursors of cytotoxic T lymphocytes The articles dealing with immunogenetics start with the description of new loci in HLA by Prof J J van Rood and co workers followed by a paper describing the molecular cloning of H 2 class I genes Prof P J Lachmann begins the discussion on the genetics of the complement system There are three stimulating articles on the chemistry and genetics of the complement components and their associations with disease After a review of artificial antigens and synthetic vaccines papers on immunomodulation describe strategies for improving immunogenicity immunomodulation in tumor systems and by xenobiotics

Recent Advances in Immunology to Target Cancer, Inflammation and Infections Jagat Kanwar, 2012-05-09 Immunology is the branch of biomedical sciences to study of the immune system physiology both in healthy and diseased states Some aspects of autoimmunity draws our attention to the fact that it is not always associated with pathology For instance autoimmune reactions are highly useful in clearing off the excess unwanted or aged tissues from the body Also generation of autoimmunity occurs after the exposure to the non self antigen that is structurally similar to the self aided by the stimulatory molecules like the cytokines Thus a narrow margin differentiates immunity from auto immunity as already discussed Hence finding answers for how the physiologic immunity turns to pathologic autoimmunity always remains a question of intense interest However this margin could be cut down only if the physiology of the immune system is better understood The individual chapters included in this book will cover all the possible aspects of immunology and pathologies associated with it The authors have taken strenuous effort in elaborating the concepts that are lucid and will be of reader's interest

Recent Advances in the Immunology of Helminth Infection - Protection, Pathogenesis and Panaceas Kara Filbey, Constance Finney, Paul Giacomini, Mark C. Siracusa, 2021-05-03 Dr Paul Giacomini is a co founder of Paragen Bio Dr Siracusa is the founder and president of Nemagen Discoveries The other Topic Editors declare no competing interests with regard to the Research Topic subject

Recent Advances in Veterinary Immunology Concepts and Methodology Armin Saalmueller, Dirk Werling, Crystal L. Loving, Philip John Griebel, 2021-03-03 We acknowledge the initiation and support of this Research Topic by the International Union of Immunological Societies IUIS We hereby state publicly that the IUIS has had no editorial input in articles included in this

Research Topic thus ensuring that all aspects of this Research Topic are evaluated objectively unbiased by any specific policy or opinion of the IUIS Recent Advances in Drosophila Cellular and Humoral Innate Immunity Susanna Valanne,Dan Hultmark,Laura Vesala,2020-12-10 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org about contact Recent Advances in Oral Immunity Avi-Hai Hovav,Asaf Wilensky,Jean-Pierre Allam,2021-08-03 The oral mucosa is a challenging environment from an immunological perspective containing discrete niches with a unique architecture and function that requires precise adjustment of the immune system Being the port of entry to the gastrointestinal and respiratory tracts the oral cavity is also constantly challenged by antigens derived from air and food Moreover the oral cavity is the sole tissue of the body harboring a hard surface i.e. the tooth that is exposed to the hostile external environment resulting in the formation of a complex biofilm that has local and systemic effects To deal with such challenges the oral immune system aims to prevent the invasion of pathogens harmful antigens and to tolerate non pathogenic counterparts in order to maintain homeostasis In recent years numerous studies have addressed these fundamental issues revealing sophisticated mechanisms engaged by the immune system to maintain oral mucosal homeostasis and to combat various immunological insults Some of these studies have identified novel immunological mechanisms emphasizing the uniqueness of the oral immune system and the necessity to further investigate its functions

Recent Advances in Psychiatry from Psycho-Neuro-Immunology Research: Autoimmunencephalitis, Autoimmune-Encephalopathy, Mild Encephalitis Karl Bechter,David Brown,Souhel Najjar,2019-08-12 Growing evidence derived from cerebrospinal fluid CSF neuropathological imaging genetic and epidemiological studies link neuroinflammation and immune dysregulation to a subset of individuals with a variety of severe mental disorders SMDs including affective and non affective psychotic disorders Further the recent discoveries of neuronal surface antibodies NSAs in autoimmune encephalitis AE presenting with diverse neuropsychiatric disorders such as psychosis and cognitive decline among many others provides further support to the notion that CNS autoimmunity and neuroinflammation can contribute to the neurobiology of psychiatric disturbances Further these immune mechanisms may contribute to a subset of patients currently diagnosed as having treatment resistant SMDs such as schizophrenia and major depressive disorder Additionally mounting data indicate that various infections can serve as an immunological trigger of aberrant immune responses presumably by causing release of excess neural antigen thereby giving rise to NSAs or aberrant immune cellular responses to give rise to primary or secondary psychiatric disorders such as schizophrenia and those associated with AE respectively Collectively

these findings support the mild encephalitis hypothesis of SMD. The significant overlap among AE associated psychosis, systemic autoimmune disorder associated psychosis and psychotic disorders associated with pathological processes involving inflammation and immune dysregulation has also prompted some authors to adopt the term autoimmune psychosis (AP). This term reflects that this psychosis subtype is mechanistically linked to complex neuroimmune and inflammatory signalling abnormalities that can be responsive to early immunomodulatory treatment. It also suggests that a subset of AP might represent an incomplete or forme fruste subtype of AE presenting with dominant or pure psychiatric symptoms mimicking primary psychiatric illnesses. Because data indicate that delayed diagnosis and treatment may lead to permanent sequelae, early recognition of AP utilizing neurodiagnostic workup (e.g. CSF analysis, neuroimaging and EEG) and its early treatment with appropriate immunotherapy are paramount to a meaningful recovery. This eBook will provide an overview of the current knowledge and research areas from epidemiology, risk factors and diagnosis to the management of these conditions in this rapidly emerging field, helping to bridge the gaps in knowledge that currently exist in the disciplines of Psychiatry, Neurology and Neuroimmunology.

Recent Advances in Understanding The Genetics of Immunological Disorders Che Kang Lim, Jinqiao Sun, Hassan Abolhassani, 2024-12-13. Immunological disorders are diseases or conditions due to the dysfunction of the immune system. They include primary immunodeficiency syndromes, autoimmune diseases, asthma, allergy and autoinflammatory syndromes. These disorders disrupt our body's ability to defend against pathogens. In addition, it may lead to exaggerated chronic inflammatory responses and tissue damage. Immunological disorders are clinically and genetically heterogeneous. The phenotypic spectrum of the diseases is broad in some of the disorders. On the other hand, the clinical phenotype derived from distinct genotypes can overlap, and the same phenotype can be cross-shared in different disorders. Therefore, accurate diagnosis and effective management are challenging. Over the last decade, advances in genomics and sequencing platforms have accelerated the understanding of how candidate genes contribute to the development of immunological disorders. Significant progress has been made in discovering disease-causing genes for rare monogenic immunological disorders, especially in immunodeficiency syndrome. These findings shed insights into disease mechanisms and facilitated the identification of new biomarkers that can help in diagnosis, prognosis and development of novel clinical therapeutic approaches.

Recent Advances in Basic and Translational Osteoimmunology Rupesh K. Srivastava, Naibedya Chattopadhyay, Katharina Schmidt-Bleek, Pradyumna Kumar Mishra, Massimo De Martinis, 2022-01-10.

Recent Advances in Pediatrics - Special Volume 22 - Immunology, Infections and Immunization Suraj Gupte, 2013-06-30. Special Volume 22 of Recent Advances in Pediatrics is a compilation of reviews bringing trainees and physicians fully up to date with key developments in paediatric immunology, infections and immunisation. Divided into four sections, Part 1 discusses issues and concerns in immunology, immunodeficiency and immunotherapy. Part 2 examines infections that may be encountered in children, including HIV, tuberculosis and meningococcal disease. Parts 3 and 4 cover immunisation and pharmacotherapy.

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