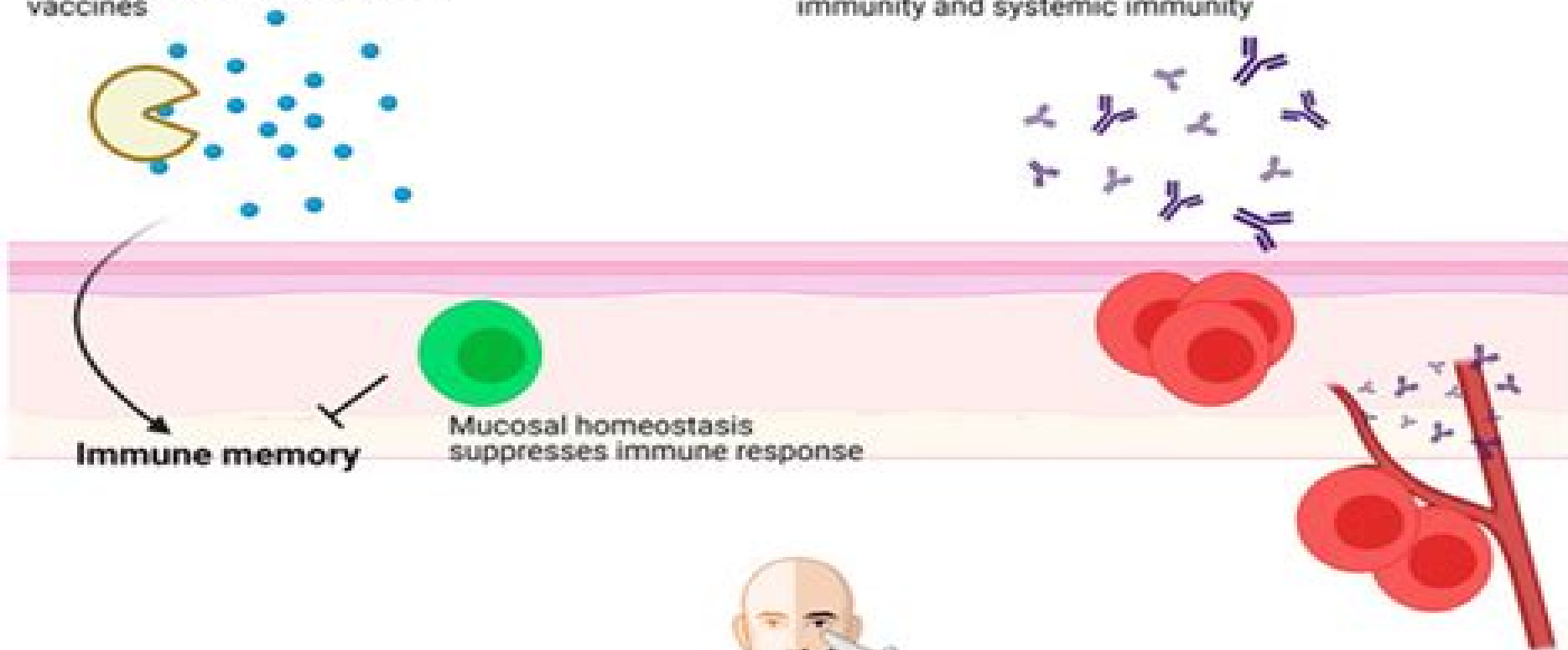


Proteolytic enzymes degrades vaccines

Can induce both of local immunity and systemic immunity

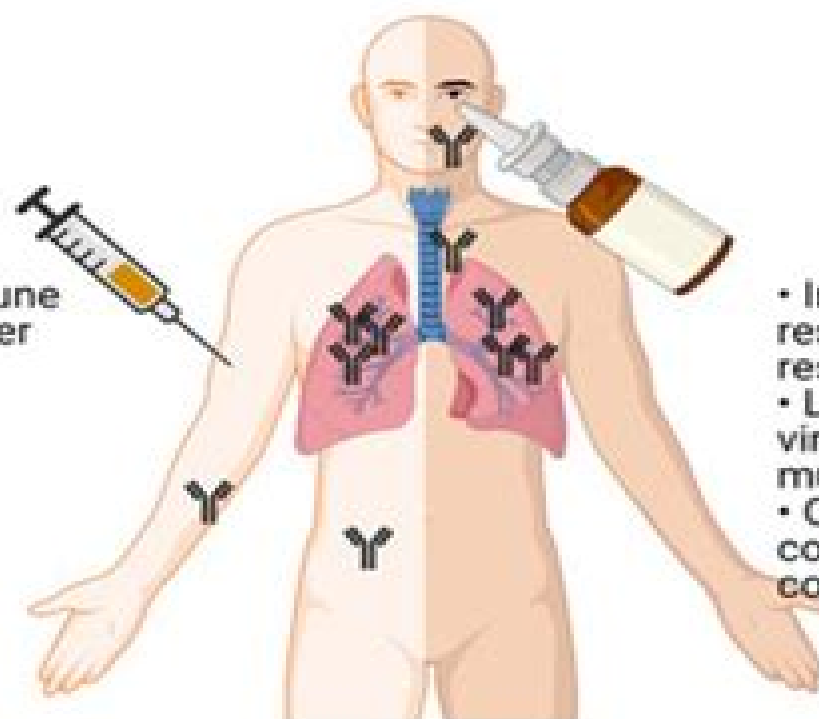


Immune memory

Mucosal homeostasis suppresses immune response

Intramuscular vaccination

- Induce systemic immune response including lower respiratory tract



Intranasal vaccination

- Induce local immune response with systemic response
- Local immunity prevents viral shedding in nasal mucosa
- Can escape from safety concern from needle contamination

Recent Advances In Mucosal Immunity

Ying-Ying Zheng



Recent Advances In Mucosal Immunity:

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 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 MAIT Cells Biology Emmanuel Treiner, Ildiko Van Rhijn, Edwin

Leeansyah, James E. Ussher, 2022-02-11 **Recent Advances in Mucosal Immunology** Jiri Mestecky, Jerry R. McGhee, John Bienenstock, Pearay L. Ogra, 2012-12-06 Increasing interest in the immunology of mucosal surfaces is obvious from the number of publications in scientific journals and from the frequency of national and international symposia devoted to this subject Particularly encouraging are the large numbers of young investigators who have chosen to work in this area of theoretical immunology with profound practical implications The two volumes represented here are the result of an International Congress Of Mucosal Immunology held at the Niagara Falls Convention Center and the Niagara Falls Hilton on June 29 July 3 1986 This satellite meeting of the International Congress of Immunology placed emphasis on all aspects of the Mucosal Immune System This included the regulation of differentiation of mucosal lymphocytes mucosa associated lymphoreticular tissue and lymphocyte homing the immunology of mucosa associated tissues and glands effector functions in mucosal immunity and the effects of environmental antigens on the immune response all of which are included in Volume I

The second volume has emphasized studies of the immune response and effector functions IgA biosynthesis and transport IgA proteases and effector functions developmental aspects and immunodeficiency the immunopathology of IgA and mucosal immunoprophylaxis A total of 218 papers are included in these two volumes and a comparison to past meetings held at four to five year intervals indicates the explosive growth of mucosal immunology

Current Catalog National Library of Medicine (U.S.),1993 First multi year cumulation covers six years 1965 70 *National Library of Medicine Current Catalog*

National Library of Medicine (U.S.),1983 **Recent Advances in Mucosal Immunity** Warren Strober,Lars Å Hanson,Kenneth W. Sell,1982 Recent Advances in Otitis Media ,1996 **Recent Advances in IgA Nephropathy** Kar Neng Lai,2009 IgA nephropathy is the most common primary glomerulonephritis in developed countries The primary defect lies in the abnormalities of the IgA molecule The disease affects all ages mainly in the young adults and may recur in a transplanted kidney This outstanding volume provides a comprehensive overview of the advances in this disease over the last ten years It covers the genetics epidemiology clinicopathological features pathogenesis prognostic mechanisms and treatment of this unique disease Twenty seven chapters are written by 43 experts from 13 countries these experts have been providing forefront scientific findings to the scientific community for the last 20 years The book covers all clinical pathological and molecular aspects of IgA nephropathy This is an essential source of reference for nephrologists internists pathologists and molecular biologists It is also suitable reading for graduate students or research scientists in the field of kidney diseases

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Handbook of Vertebrate Immunology Paul-Pierre Pastoret,Philip Griebel,Hervé Bazin,André Govaerts,1998-05-21 This unique book provides a comprehensive and comparative guide to the immune systems of major vertebrate species including domestic and wild animals of veterinary or medical interest fish and amphibia Data in this essential reference work has been compiled by world renowned editors and an international group of authors For each species the information is presented in a structured user friendly format allowing easy cross reference and comparison between the various species This book will be considered the definitive reference work

on vertebrate immunology and will be essential for scientists and professionals working in Immunology Vaccinology or with Animal Models for students of Veterinary or Human Medicine Biology and researchers in Comparative Medicine and Physiology Each section devoted to a major animal group covers Lymphoid organs and their anatomical disposition Leukocytes and their markers Leukocyte traffic and associated molecules Cytokines T cell receptors Immunoglobulins MHC antigens Ontogeny of the immune system Passive transfer of immunity Neonatal immune responses Non specific immunity Complement system Mucosal immunity Immunodeficiencies Tumours of the immune system Autoimmunity **Recent**

Advances in Precision Vaccine Discovery & Development Ofer Levy, Simon Daniel Van Haren, Scott James

Tebbutt, Francesco Borriello, Jay Evans, 2021-11-23 Topic Editor Jay Evans is the co founder President and CEO of Inimmune Corporation The other Topic Editors declare no competing interests with regard to the Research Topic subject Advanced Concepts in Human Immunology: Prospects for Disease Control Pooja Jain, Lishomwa C. Ndhlovu, 2020-08-11 This book highlights information derived primarily from clinical samples with particular reference to theoretical and scientific aspects of the human immune system This text will focus on topics that range from host pathogen interactions in infectious disease to host immune response in cancer allergic diseases neuroinflammatory diseases and autoimmune disorders The reader will also have a well rounded understanding of the behavior of the immune system with particular emphasis on the role of immunoproteomics in immunotherapy neuroprotective immunity for neurodegenerative and neuroinfectious disease leukemia associated dendritic cell induction of adaptive immunity dysregulation and the role of immune checkpoint inhibitors in cancer infection as well as neuroinflammation Taken together the contents of this book are intended for both clinicians and researchers in academia and industry **Cells of the Immune System** Ota Fuchs, Seyyed Shamsadin Athari, 2020-05-13

The cells of the immune system are lymphocytes T cells B cells and NK natural killer cells neutrophils eosinophils and monocytes macrophages This book is an overview of some types of these cells and their role in recognizing and or reacting against foreign material The immune system is characterized by collaboration between cells and proteins The development of all cells of the immune system begins in the bone marrow with a hematopoietic stem cell Two chapters deal with neutrophils three chapters with T cells four chapters with eosinophils and other chapters review the immunomodulation of macrophages the role of transcription factor KLF4 in regulating plasticity of myeloid derived suppressor cells immune reconstitution after allogeneic hematopoietic stem cell transplantation and role of sorption detoxification in the therapy of acute radiation sickness

Recent Advances in Otitis Media David J. Lim, 2005 *Immunotoxicology* The Commission of the European Communities & UNEP, ILO, WHO International Programme on Chemical Safety, 2012-12-06 IX The International Seminar on the Immunological System as a Target for Toxic Damage was held at The Commission of the European Communities CEC in Luxembourg on 6-9 November 1984 It was organized by the CEC and the International Programme on Chemical Safety of UNEP ILO WHO with the support of the U S Environmental Protection Agency and the National Institute of Environmental

Health Sciences USA and with the participation of the International Society of Immunopharmacology These bodies are actively concerned with the scientific and applied aspects of immunotoxicology The Seminar consisted of thirty four invited papers and three major panel discussions covering current and future test strategies for the screening of immunotoxic substances hypersensitivity and the health implications of immunotoxicological problems It was attended by more than 200 scientists from 27 countries representing all the Member states of the European Economic Community and the six Regions of the World Health Organization These scientists represented many different disciplines and interests The Seminar's principal objectives were a review of recent advances in knowledge concerning the structure function and dysfunction of the immunological system a review of the effects of xenobiotics on the immune system in animals and humans an examination of the human health implications of immunotoxicity discussion and critical analysis of the procedures for the assessment of immunological damage a discussion of needs for the further development of laboratory and epidemiological methods and their validation and a consideration of current test strategies Cumulated Index Medicus ,1988 **Advanced**

Vaccination Technologies for Infectious and Chronic Diseases Vasso Apostolopoulos,Lalitkumar K. Vora,Vivek P. Chavda,2024-03-25 The role of vaccines is emerging and even critical to ending infectious and chronic diseases and pandemics alike The design and development of new vaccines could lead to improved health Handbook on Advanced Vaccination Technologies for Infectious and Chronic Disease discusses these new developments and introduces the reader to the current state of the science and the outlook going forward from the discovery of vaccines to the clinical trials of personalized vaccines Handbook on Advanced Vaccination Technologies for Infectious and Chronic Diseases is a valuable reference for occupational health professionals whose role involves supervision of immunization programs such as those working in the National Health Service some sectors of higher education and the pharmaceutical industry Offers comprehensive coverage of different vaccine platforms and their development Includes information on the regulatory perspective of vaccine development Describes different delivery approaches for vaccinology Explains the clinical development of vaccines along with novel platforms Covers all recent developments of vaccine production technologies new types of vaccines and ongoing research that could prevent future pandemics Issues in AIDS, HIV, and STD Research and Treatment: 2011 Edition ,2012-01-09 Issues in AIDS HIV and STD Research and Treatment 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about AIDS HIV and STD Research and Treatment The editors have built Issues in AIDS HIV and STD Research and Treatment 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about AIDS HIV and STD Research and Treatment in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in AIDS HIV and STD Research and Treatment 2011 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources

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