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Recent Developments in Prophylactic Immunization

Edited by
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Recent Developments In Prophylactic Immunisation

Stanley A. Plotkin



Recent Developments In Prophylactic Immunisation:

Recent Developments in Prophylactic Immunization Francis J. Zucker, 2012-12-06 It has been said that never in the history of human progress has a better and cheaper method of preventing illness been developed than immunization This is well illustrated by the WHO Expanded Programme on Immunization EPI which in developing countries is now preventing nearly a million deaths annually from measles pertussis and neonatal tetanus and for which there is a commitment by the WHO and UNICEF to protect all children by immunization by the end of the decade This enormous undertaking will be facilitated by the rapid advances in molecular biology and recombinant DNA technology in the understanding of immunological mechanisms and by the production and application of monoclonal antibodies so that the structure and location of important antigenic determinants or epitopes can be determined Chemical synthesis of oligopeptides has been simplified and computer programmes and X ray crystallography provide the tools for the determination of three dimensional structure of proteins so that the structure and location of important antigenic determinants or epitopes can be predicted These techniques have opened the way to the improvement of existing vaccines and to the development and production of new vaccines against infections for which vaccines are not available New vaccines under development include vaccines against hepatitis B hepatitis A malaria vaccines for typhoid cholera rota virus infection and other diarrhoeal diseases leprosy rabies the acquired immune deficiency syndrome AIDS rubella EB virus schistosomiasis and other infections These recent developments are discussed in the volume by internationally recognized experts assembled from several countries Recent Developments in Prophylactic Immunization Arie J. Zuckerman, 1989 Recent Advances in Immunization Jon Kim Andrus, Ciro A. de Quadros, 2006 This publication examines the key issues involved in immunisation programmes in the Pan American Health Organization region with chapters on adolescent and adult immunisation combination vaccines for childhood immunisation optimal use of the BCG vaccine for the prevention of tuberculosis TB vaccination safety interpretation of measles and rubella serology preparing for the influenza pandemic the introduction of new and underused vaccines and recent developments with prophylactic human papillomavirus vaccines *Recent Advances in Pediatrics - 21 - Hot Topics* Suraj Gupte, 2013-06-30 Volume 21 of *Recent Advances in Pediatrics* is a compilation of reviews bringing trainees and physicians fully up to date with key developments in the field Topics in this new volume include advances in neonatology nutrition gastroenterology and hepatology psychiatry endocrinology and critical care Separate chapters are dedicated to vaccines and pharmacotherapy Presented in an easy to follow format Volume 21 follows a multidisciplinary approach Each chapter finishes with a summary of key learning points and extensive references for further reading Clinical photographs illustrations and tables enhance learning Key points New updated volume presenting latest developments in paediatrics Multidisciplinary approach easy to follow format Extensive references and key learning points summarised in each chapter Hot Topics Volume 20 published in 2011 **Recent Advances in Tropical Medicine** Leonard Rogers, 1928 **New**

Topics in Vaccine Development ,2024-10-23 New Topics in Vaccine Development explores the latest advancements and future directions in vaccinology across 11 chapters each addressing a different and specific facet This book is an essential resource for clinicians researchers scientists and students in immunology aiming to deepen their understanding of this crucial field

Micro- and Nanotechnology in Vaccine Development Mariusz Skwarczynski,Istvan Toth,2016-09-20 This book provides a comprehensive overview of how use of micro and nanotechnology MNT has allowed major new advance in vaccine development research and the challenges that immunologists face in making further progress MNT allows the creation of particles that exploit the inherent ability of the human immune system to recognize small particles such as viruses and toxins In combination with minimal protective epitope design this permits the creation of immunogenic particles that stimulate a response against the targeted pathogen The finely tuned response of the human immune system to small particles makes it unsurprising that many of the lead adjuvants and vaccine delivery systems currently under investigation are based on nanoparticles Provides a comprehensive and unparalleled overview of the role of micro and nanotechnology in vaccine development Allows researchers to quickly familiarize themselves with the broad spectrum of vaccines and how micro and nanotechnologies are applied to their development Includes a combination of overview chapters setting out general principles and focused content dealing with specific vaccines making it useful to readers from a variety of disciplines

History of Vaccine Development Stanley A. Plotkin,2011-05-11 Vaccinology the concept of a science ranging from the study of immunology to the development and distribution of vaccines was a word invented by Jonas Salk This book covers the history of the methodological progress in vaccine development and to the social and ethical issues raised by vaccination Chapters include Jenner and the Vaccination against Smallpox Viral Vaccines and Ethical and Social Aspects of vaccines Contributing authors include pioneers in the field such as Samuel L Katz and Hilary Koprowski This history of vaccines is relatively short and many of its protagonists are still alive This book was written by some of the chief actors in the drama whose subject matter is the conquest of epidemic disease

Development of Novel Vaccines Alexander von Gabain,Christoph Klade,2012-04-23 Development of novel vaccines gives an overview of the tasks in basic research leading to the final product the vaccine and its applications belonging to the most complex biologics in the pharmaceutical field Distinct from most textbooks in the vaccine arena the current issue focuses on the translational aspect namely how research results can be transformed into life saving medical interventions Each chapter of the book deals with one important paradigm for the development of novel vaccines along the value chain towards the final vaccine and furthermore with the inevitable tools required for this process Contributions are prepared by teams of scientists all of whom are experts in the field most of them anchored in biomedical organizations devoted to translational culture thereby lighting the certain topics from different views This volume is a must read for researchers engaged in vaccine development and who really want to see their research results to become a product

Paradigm Changes Are Required in HIV Vaccine Research Marc H. V. Van

Regenmortel,2015-12-08 In his 1962 book *The Structure of Scientific Revolutions* Thomas Kuhn famously argued that researchers in every field of scientific enquiry always operate under a set of presuppositions known as paradigms that are rarely explicitly stated In the field of HIV vaccine research several prevailing paradigms led scientists for many years to pursue unfruitful lines of investigations that impeded significant progress The uncritical acceptance of reigning paradigms makes scientists reluctant to abandon their mistaken assumptions even when they obtain results that are not consistent with the paradigms The following five paradigms which disregard the degeneracy of the immune system were particularly harmful

- 1 There is a primary and intrinsic epitope specific for each B cell receptor and for the corresponding monoclonal antibody In reality there is no single intrinsic or real epitope for any antibody but only a diverse group of potential ligands
- 2 Reactions with monoclonal antibodies are more specific than the combined reactivity of polyclonal antibodies In reality a polyclonal antiserum has greater specificity for a multiepitopic protein because different antibodies in the antiserum recognize separate epitopes on the same protein giving rise to an additive specificity effect By focusing vaccine design on single epitope Mab pairs the beneficial neutralizing synergy that occurs with polyclonal antibody responses is overlooked
- 3 The HIV epitope identified by solving the crystallographic structure of a broadly neutralizing Mab HIV Env complex should be able when used as immunogen to elicit antibodies endowed with the same neutralizing capacity as the Mab Since every anti HIV bnMab is polyspecific the single epitope identified in the complex is not necessarily the one that elicited the bnMab Since hypermutated Mabs used in crystallographic studies differ from their germline like receptor version present before somatic hypermutation the identified epitope will not be an effective vaccine immunogen
- 4 Effective vaccine immunogenicity can be predicted from the antigenic binding capacity of viral epitopes Most fragments of a viral antigen can induce antibodies that react with the immunogen but this is irrelevant for vaccination since these antibodies rarely recognize the cognate intact antigen and even more rarely neutralize the infectivity of the viral pathogen that harbors the antigen
- 5 The rational design of vaccine immunogens using reverse vaccinology is superior to the trial and error screening of vaccine candidates able to induce protective immunity One epitope can be designed to increase its structural complementarity to one particular bnMab but such antigen design is only masquerading as immunogen design because it is assumed that antigenic reactivity necessarily entails the immunogenic capacity to elicit neutralizing antibodies When HIV Env epitopes engineered to react with a bnMab are used to select from human donors rare memory B cells secreting bnAbs this represents antigen design and not immunogen design The aim of this Research Topic is to replace previous misleading paradigms by novel ones that better fit our current understanding of immunological specificity and will help HIV vaccine development

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