

CURRENT TOPICS IN MICROBIOLOGY AND IMMUNOLOGY

Richard W. Compans
Walter A. Orenstein
Editors

Vaccines for Pandemic Influenza



Springer

Vaccines For Pandemic Influenza Current Topics In Microbiology And Immunology

Gregg N. Milligan, Alan D. T. Barrett



Vaccines For Pandemic Influenza Current Topics In Microbiology And Immunology:

Vaccines for Pandemic Influenza Richard W Compans, Walter A. Orenstein, 2009-09-18 Recent years have seen unprecedented outbreaks of avian influenza A viruses. In particular, highly pathogenic H5N1 viruses have not only resulted in widespread outbreaks in domestic poultry but have been transmitted to humans resulting in numerous fatalities. The rapid expansion in their geographic distribution and the possibility that these viruses could acquire the ability to spread from person to person raises the risk that such a virus could cause a global pandemic with high morbidity and mortality. An effective influenza vaccine represents the best approach to prevent and control such an emerging pandemic. However, current influenza vaccines are directed at existing seasonal influenza viruses which have little or no antigenic relationship to the highly pathogenic H5N1 strains. Concerns about pandemic preparedness have greatly stimulated research activities to develop effective vaccines for pandemic influenza viruses and to overcome the limitations inherent in current approaches to vaccine production and distribution. These limitations include the use of embryonated chicken eggs as the substrate for vaccine production which is time consuming and could involve potential biohazards in growth of new virus strains. Other limitations include the requirement that the current inactivated influenza vaccines be administered using needles and syringes requiring trained personnel which could be a bottleneck when attempting to vaccinate large populations in mass campaigns. In addition, the current inactivated vaccines that are delivered by injection elicit limited protective immunity in the upper respiratory tract where the infection process is initiated.

Advances in Pulmonary Drug Delivery Philip Chi Lip Kwok, Hak-Kim Chan, 2016-12-19 The respiratory tract has been used to deliver biologically active chemicals into the human body for centuries. However, the lungs are complex in their anatomy and physiology which poses challenges to drug delivery. Inhaled formulations are generally more sophisticated than those for oral and parenteral administration. Pulmonary drug development is therefore a highly specialized area because of its many unique issues and challenges. Rapid progress is being made and offers novel solutions to existing treatment problems. *Advances in Pulmonary Drug Delivery* highlights the latest developments in this field.

Handbook of Critical Incident Analysis Richard W Schweser, 2014-12-18 Critical incidents all too often explode onto the social conscious and challenge our sense of security. This comprehensive handbook brings together a range of experts who provide a foundation for the field of critical incident analysis by examining specific incidents: 9/11, the Virginia Tech massacre, the H1N1 pandemic, the BP oil spill, and more through various methodological and disciplinary lenses. This groundbreaking book develops a new organizational theory derived from ideas in statistics and psychometrics. The author's core premise is that errors known to occur in social science research must also occur when managers look at their data and seek to make inferences about cause and effect. Statistico organizational theory uses methodological principles to predict when errors occur and how great they will be. Expanding on this concept, The Meta Analytic Organization offers new theoretical propositions about organizational strategy and structure with wide application.

to human resource management international business and more *Vaccinology* Gregg N. Milligan, Alan D. T. Barrett, 2015-02-16 *Vaccinology An Essential Guide* outlines in a clear practical format the entire vaccine development process from conceptualization and basic immunological principles through to clinical testing and licensing of vaccines With an outstanding introduction to the history and practice of vaccinology it also guides the reader through the basic science relating to host immune responses to pathogens Covering the safety regulatory ethical and economic and geographical issues that drive vaccine development and trials it also presents vaccine delivery strategies novel vaccine platforms including experimental vaccines and pathogens antigen development and selection vaccine modelling and the development of vaccines against emerging pathogens and agents of bioterror There are also sections devoted to veterinary vaccines and associated regulatory processes *Vaccinology An Essential Guide* is a perfect tool for designed for undergraduate and graduate microbiologists and immunologists as well as residents fellows and trainees of infectious disease and vaccinology It is also suitable for all those involved in designing and conducting clinical vaccine trials and is the ideal companion to the larger reference book *Vaccinology Principles and Practice*

Pandemic Influenza Vaccine Approaches: Current Status and Future Directions Rebecca Jane Cox, Michael Schotsaert, Corey Patrick Mallett, 2022-09-28 [Preventing Transmission of Pandemic Influenza and Other Viral Respiratory Diseases](#) Institute of Medicine, Board on Health Sciences Policy, Committee on Personal Protective Equipment for Healthcare Personnel to Prevent Transmission of Pandemic Influenza and Other Viral Respiratory Infections: Current Research Issues, 2011-05-26 In 2009 the H1N1 influenza pandemic brought to the forefront the many unknowns about the virulence spread and nature of the virus as well as questions regarding personal protective equipment PPE for healthcare personnel In this book the Institute of Medicine assesses the progress of PPE research and identifies future directions for PPE for healthcare personnel

Avian Flu Jeffrey N. Sfakianos, I. Edward Alcamo, 2006 This continuing series explores different diseases to show the science behind how disease causing organisms affect the body Microorganisms have plagued humans since the beginning of time causing debilitating diseases and even death But how exactly do these microorganisms infect and cause disease The books in this series examine various microbiological scourges that have affected humans as well as the steps that have been taken to identify isolate prevent and eradicate them Each title will outline the history and treatments of the diseases highlighting how improvements in prevention and treatment techniques have affected the disease s impact on the world population Also known as the bird flu avian influenza is a disease that once infected only birds but has acquired the ability to infect humans with deadly results

Encyclopedia of Dietary Supplements Paul M. Coates, Joseph M. Betz, Marc R. Blackman, Gordon M. Cragg, Mark Levine, Joel Moss, Jeffrey D. White, 2010-06-25 *Encyclopedia of Dietary Supplements* presents peer reviewed objective entries that rigorously examine the most significant scientific research on basic chemical preclinical and clinical data Designed for healthcare professionals researchers and health conscious consumers it presents evidence based information on the major vitamin and mineral

micronutrients herbs botanicals phytochemicals and other bioactive preparations Supplements covered include Vitamins beta carotene niacin and folate Omega 3 and omega 6 fatty acids isoflavones and quercetin Calcium copper iron and phosphorus 5 hydroxytryptophan glutamine and L arginine St John s Wort ginkgo biloba green tea kava and noni Androstenedione DHEA and melatonin Coenzyme Q10 and S adenosylmethionine Shiitake maitake reishi and cordiceps With nearly 100 entries contributed by renowned subject specific experts the book serves as a scientific checkpoint for the many OTC supplements carried in today s nutritional products marketplace Also Available Online This Taylor E mail e reference taylorandfrancis.com International Tel 44 0 20 7017 6062 E mail online sales tandf.co.uk

Intelligent Modeling, Prediction, and Diagnosis from Epidemiological Data Siddhartha Bhattacharyya, 2021-11-22 Intelligent Modeling Prediction and Diagnosis from Epidemiological Data COVID 19 and Beyond is a handy treatise to elicit and elaborate possible intelligent mechanisms for modeling prediction diagnosis and early detection of diseases arising from outbreaks of different epidemics with special reference to COVID 19 Starting with a formal introduction of the human immune systems this book focuses on the epidemiological aspects with due cognizance to modeling prevention and diagnosis of epidemics In addition it also deals with evolving decisions on post pandemic socio economic structure The book offers a comprehensive coverage of the most essential topics including A general overview of pandemics and their outbreak behavior A detailed overview of CI techniques Intelligent modeling prediction and diagnostic measures for pandemics Prognostic models Post pandemic socio economic structure The accompanying case studies are based on available real world data sets While other books may deal with this COVID 19 pandemic none features topics covering the human immune system as well as influences on the environmental disorder due to the ongoing pandemic The book is primarily intended to benefit medical professionals and healthcare workers as well as the virologists who are essentially the frontline fighters of this pandemic In addition it also serves as a vital resource for relevant researchers in this interdisciplinary field as well as for tutors and postgraduate and undergraduate students of information sciences

Medical Microbiology E-Book David Greenwood, Richard C B Slack, Michael R. Barer, Will L Irving, 2012-07-17 Medical microbiology concerns the nature distribution and activities of microbes and how they impact on health and wellbeing most particularly as agents of infection Infections remain a major global cause of mortality and in most hospitals around one in ten of those admitted will suffer from an infection acquired during their stay The evolution of microbes presents a massive challenge to modern medicine and public health The constant changes in viruses such as influenza HIV tuberculosis malaria and SARS demand vigilance and insight into the underlying process Building on the huge success of previous editions Medical Microbiology 18 e will inform and inspire a new generation of readers Now fully revised and updated initial sections cover the basic biology of microbes infection and immunity and are followed by a systematic review of infective agents their associated diseases and their control A final integrating section addresses the essential principles of diagnosis treatment and management An unrivalled collection of international

contributors continues to ensure the relevance of the book worldwide and complementary access to the complete online version on Student Consult further enhances the learning experience Medical Microbiology is explicitly geared to clinical practice and is an ideal textbook for medical and biomedical students and specialist trainees It will also prove invaluable to medical laboratory scientists and all other busy professionals who require a clear current and most trusted guide to this fascinating field Advanced Synthetic Materials in Detection Science Professor Subrayal M Reddy,2014 This book captures the key developments at the synthetic receptor biology detection science interface with chapters demonstrating how growing disciplines are being used to develop new smart materials for diagnostic sensor and biosensor applications

John R. La Montagne Memorial Symposium on Pandemic Influenza Research Institute of Medicine,Board on Population Health and Public Health Practice,2005-11-06 The Institute of Medicine IOM of the National Academies of Science held a symposium in memory of Dr John R La Montagne on April 4 5 2005 to discuss the current state of the art of research on pandemic influenza and to identify gaps in research The symposium serves as a first step of discussion towards a combined and coordinated research effort among Department of Health and Human Services agencies other governmental agencies international partners and the private sector The statement of task that guided the Symposium agenda included these specific questions What is the current state of the science on pandemic influenza research What are the pressing unmet scientific questions and technical issues What administrative logistic or legal impediments exist that block progress towards the development of interventions to respond to pandemic influenza How can collaboration among Global health Security Action Group nations be strengthened to address unmet scientific questions and technical issues related to research on pandemic influenza What do experts believe are the most important next steps to take to advance research on pandemic influenza The Proceedings of the John La Montagne Memorial Symposium on Pandemic Influenza Research Gaps represents a slightly edited transcript of the plenary presentations rapporteur presentations plenary discussion and presentation slides This document contains the Symposium agenda short biographies of plenary speakers and provides a list of individuals who attended the symposium *Zoonotic Pathogens in the Food Chain* Denis O. Krause,Stephen Hendrick,2011 Beginning with their sources including manure and animal feed and detailing their development spread and transmission to humans Zoonotic Pathogens in the Food Chain gives an insightful introduction to and epidemiological overview of the problems raised by zoonotic pathogens The authors specifically examine the attributes of microorganisms that allow potential contamination of food sources and the factors in modern animal production processes that contribute to the risk of infection Chapters discuss in detail pathogens that have recently emerged as important sources of infection investigating in depth the implications of avian flu swine flu bovine spongiform encephalopathies and Johne s disease for human consumers and considering where potential mitigation strategies should be focused With a focus on new trends in animal production such as organic livestock farming and raw milk consumption this text provides an interesting and up to date reference for researchers academics and

those with an interest in pathology working in the livestock industry **Influenza Virus Vaccines and Immunotherapies**

Arun Kumar, Shakti Singh, 2016-03-15 Influenza virus infections lead to thousands of deaths worldwide annually and billions of dollars economic burden. Despite continuing advances in our understanding of the immune evasion mechanism, the disease remains one of the foremost threats for human beings. Traditional vaccines, attenuated and inactivated, mainly provide protection by inducing virus neutralizing antibodies targeting ever-changing surface antigens. Haemagglutinin (HA) and Neuraminidase (NA). Due to genetic shift and immune selection pressure, prevalence of circulating influenza virus subtypes changes every year. Therefore, mismatch between circulating strain and vaccine strain can critically affect the success rate of these conventional flu vaccines and requires continuous monitoring of circulating influenza virus subtypes and change in the vaccine formulations accordingly. The collective limitations of existing flu vaccines urgently call for the development of a novel universal vaccine that might provide the required protective immunity to a range of influenza virus subtypes. New approaches are being investigated, mainly targeting conserved regions of flu proteins. Some of these approaches include universally conserved epitopes of HA, nucleoprotein (NP), capsid protein (M1) and ion channel protein (M2) that induced strong immune responses in animal models. Some attention and progress appears to be focused on vaccines based on the M2 ectodomain (M2e) employing a variety of constructs, adjuvants and delivery systems including M2e, hepatitis B core antigen, flagellin constructs and virus-like particles (VLP). Animal studies with these M2e candidate vaccines demonstrated that these vaccine candidates can prevent severe illness and death but not infection, which may pose difficulties in both the evaluation of clinical efficacy and approval by the regulatory authorities. VLP vaccines appear to be promising but still are mostly limited to animal studies. The discovery and development of new and improved vaccines have been greatly facilitated by the application of new technologies. The use of nucleic acid-based vaccines to combine the benefits of in situ expression of antigens with the safety of inactivated and subunit vaccines has been a key advancement. Upon their discovery more than 20 years ago, nucleic acid vaccines promised to be a safe and effective means to mimic immunization with a live organism vaccine, particularly for induction of T cell immunity. In addition, the manufacturing of nucleic acid-based vaccines offered the potential to be relatively simple, inexpensive and generic. Reverse vaccinology and in silico designing of vaccines are very innovative approaches and being considered as future of vaccines. Furthermore, various immuno-therapeutic agents also being developed to treat and minimize immuno-pathological damage in patients suffering from life-threatening complications. For the treatment of such pathological conditions, various novel approaches such as administration of immune suppressive cytokines, blocking co-stimulatory signals or activating co-inhibitory signal of T cell activation are being tested both in lab and clinics. The Research Topic on influenza virus vaccine and therapeutics will give an insight into the current status and future scope of these new innovative approaches and technologies. Moreover, these new methods will also serve as a reference tool for the development of future vaccines against several other pathogens *Influenza Pathogenesis and Control - Volume I*

Richard W. Compans, Michael B. A. Oldstone, 2014-10-08 This two volume work covers the molecular and cell biology genetics and evolution of influenza viruses the pathogenesis of infection resultant host innate and adaptive immune response prevention of infection through vaccination and approaches to the therapeutic control of infection Experts at the forefront of these areas provide critical assessments with regard to influenza virology immunology cell and molecular biology and pathogenesis Volume I provides overviews of the latest findings on molecular determinants of viral pathogenicity virus entry and cell tropism pandemic risk assessment transmission and pathogenesis in animal species viral evolution ecology and antigenic variation while Volume II focuses on the role of innate and adaptive immunity in pathogenesis development of vaccines and antivirals **Influenza Pathogenesis and Control - Volume II** Michael B. A. Oldstone, Richard W.

Compans, 2014-11-06 This two volume work covers the molecular and cell biology genetics and evolution of influenza viruses the pathogenesis of infection resultant host innate and adaptive immune response prevention of infection through vaccination and approaches to the therapeutic control of infection Experts at the forefront of these areas provide critical assessments with regard to influenza virology immunology cell and molecular biology and pathogenesis Volume I provides overviews of the latest findings on molecular determinants of viral pathogenicity virus entry and cell tropism pandemic risk assessment transmission and pathogenesis in animal species viral evolution ecology and antigenic variation while Volume II focuses on the role of innate and adaptive immunity in pathogenesis development of vaccines and antivirals Principles and Practice

of Clinical Virology Arie J. Zuckerman, 2009-03-12 Principles and Practice of Clinical Virology is the bible for all working in the field of clinical virology from the trainee to the expert because there s always something new to learn As before the book provides a detailed account of the diagnosis and treatment of virus infections with a stronger emphasis on clinical expertise and management Each chapter deals with a single virus or group of viruses and is written by leading international experts in the field What s new in this edition Showcases the wealth of new knowledge acquired on virus infections and reflects the discovery of newly recognized emerging infections the improvement or development of new vaccines and an increasing repertoire of antiviral agents for treatment All chapters have been thoroughly revised and there are a number of new contributors joining the cadre of internationally recognized experts Includes a new chapter on vaccinology covering the principles relating to the development and use of vaccines generally which complements the specific vaccines described in the other chapters The two chapters on nosocomial infections have been enlarged and will be particularly useful for those having to advise on the management of hospital acquired infections Emphasizes the rapid accumulation of new information in such fields as retroviruses particularly HIV SARS hepatitis C and influenza including avian influenza *Animal Influenza* David E. Swayne, 2016-10-14 Animal Influenza Second Edition is a comprehensive text on animal influenza Organized by species coverage includes avian swine equine and mammals with each section including data on influenza viruses the infection and disease they cause and strategies used in control Covers the full range of topics within avian swine equine and

mammalian influenzas in one comprehensive and authoritative text Provides a summarization of peer reviewed and empirical data on influenza viruses the infection and diseases they cause Discusses strategies used in control of the disease Leading experts are drawn together to provide an international and multi disciplinary perspective Fuses latest developments in basic scientific research with practical guidance on management of the disease *Avian Influenza* David E. Swayne, 2009-03-03

Avian Influenza provides the first comprehensive guide covering the full spectrum of this complex and increasingly high profile disease its history and its treatment and control All aspects of avian influenza are dealt with in depth systematically covering biology virology diagnostics ecology epidemiology clinical medicine and the control The book fuses coverage of the latest discoveries in the basic sciences with a practical approach to dealing with the disease in a clinical setting and providing instruction and guidance for veterinarians and government animal health officials encountering this disease in the field Avian Influenza provides the reader with a global perspective bringing together chapters written by leading animal health researchers and veterinarians with significant experience working with this disease Providing a summary and synthesis of important data and research on this virus its impact on both wild and domesticated birds and approaches to controlling the spread of the disease Avian Influenza will be an invaluable resource for all veterinarians scientists animal health professionals and public health officials dealing with this virus Covers full range of topics within avian influenza in one comprehensive and authoritative text Provides a summarization of peer reviewed and empirical data on avian influenza viruses the infection and diseases they cause Discusses strategies used in control of the disease Leading experts are drawn together to provide an international and multi disciplinary perspective Fuses latest developments in basic scientific research with practical guidance on management of the disease *Koenig and Schultz's Disaster Medicine* Kristi L. Koenig, Carl H. Schultz, 2016-02-16

As societies become more complex and interconnected the global risk for catastrophic disasters is increasing Demand for expertise to mitigate the human suffering and damage these events cause is also high A new field of disaster medicine is emerging offering innovative approaches to optimize disaster management Much of the information needed to create the foundation for this growing specialty is not objectively described or is scattered among multiple different sources This definitive work brings together a coherent and comprehensive collection of scientific observations and evidence based recommendations with expert contributors from around the globe This book identifies essential subject matter clarifies nomenclature and outlines necessary areas of proficiency for healthcare professionals handling mass casualty crises It also describes in depth strategies for the rapid diagnosis and treatment of victims suffering from blast injuries or exposure to chemical biological and radiological agents

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