

Human Seasonal Influenza Viruses

Types

• Influenza A

(Influenza virus types A&B cause most human illness and the flu season)

• Influenza B

Subtypes

• A(H1N1)

• A(H3N2)

Lineages

• B(Victoria)

• B(Yamagata)

Clades (Groups)

[Select Examples]

• 6B.1

• 3C.2a, 3C.3a

• V1A

• Y1, Y2, Y3

Sub-Clades (Sub-Groups)

[Select Examples]

• 6B.1A

• 3C.2a1; 3C.2a2; 3C.2a3;
3C.2a4

• V1A.1; V1A.2; V1A.3

• None

The Influenza Viruses

Teri Shors



The Influenza Viruses:

The Influenza Viruses and Influenza Edwin Dennis Kilbourne, 1975 **The Influenza Viruses** Leslie Hoyle, 1968 The Influenza Viruses Robert M. Krug, 2012-12-06 Influenza virus is an important human pathogen frequently causing widespread disease and a significant loss of life Much has been learned about the structure of the virus its genetic variation its mode of gene expression and replication and its interaction with the host immunologic system This knowledge has the potential of leading to approaches for the control of influenza virus In addition research on influenza virus has led to important advances in eukaryotic molecular and cellular biology and in immunology A major focus of this book is the molecular biology of influenza virus The first chapter which serves as an introduction describes the structure of each of the genomic RNA segments and their encoded proteins The second chapter discusses the molecular mechanisms involved in the expression and replication of the viral genome In addition to other subjects this chapter deals with one of the most distinctive features of influenza virus namely the unique mechanism whereby viral messenger RNA synthesis is initiated by primers derived from newly synthesized host cell RNAs in the nucleus Among the most significant accomplishments in influenza virus research has been the delineation of the three dimensional structure of the two surface glycoproteins of the virus the hemagglutinin and neuraminidase This has provided a structural basis for mapping both the antigenic sites and the regions involved in the major biological functions of these two molecules *Genetics of Influenza Viruses* P. Palese, D.W. Kingsbury, 2012-12-06 With the advent of genetic engineering methods and improved biochemical techniques much has been learned about the replication of influenza viruses their structure and their epidemiology It appears that the time is ripe to review these efforts and to provide a molecular perspective of influenza virology It is hoped that this book will stimulate our thinking help us in designing new experiments and possibly show avenues leading to the control of the diseases associated with influenza viruses Peter Palese New York N Y August 1983 David W Kingsbury Memphis Tenn Contents List of Contributors XV 1 The Evolution of Influenza Viral Genetics A Perspective By E D Kilbourne 1 I Introduction 1 II The Development of Modern Influenza Viral Genetics 2 A Early Evidence of Genetic Variation in the Laboratory 2 B Application of Formal Genetic Techniques to Studies of Influenza Virus 3 C Genetic Markers 3 D Development of Plaque Systems 4 E The Use of Conditional Lethal Mutants 5 F New Approaches in Influenza Virus Genetics 6 1 The Biochemical Identification of Viral Gene Products in the Unambiguous Definition of Viral Inheritance 6 2 Mapping of the Influenza Virus Genome by Correlative Physico Chemical and Biological Techniques 7 3 The Application of Molecular Biological Techniques to the Study of Viral Genetic Variation 8 4 Oligonucleotide Mapping of Viral RNAs 8 5 Contribution of Protein and RNA Sequencing to Influenza Viral Genetics Intragenic Mapping 8 III Viral Genetics and the Understanding of Viral Virulence and Pathogenicity
Influenza Viruses Michael F. Schmidt, 2007 This book includes most of the lectures held at the Berlin Influenza Conference written by some of the leading virologists in the world The articles are top class and up to date Contents

Scholtissek's 75th Birthday Aspects of Protein Structures of Borna Disease Virus The Looming Danger Avian influenza in wild birds The sialic acid binding activity of the porcine transmissible gastroenteritis coronavirus TGEV Stability of the HA Ectodomain Reverse Genetics with Influenza Viruses Rapid generation of influenza virus vaccines 100 years of influenza history Influenza Pandemic Preparedness Proteolytic cleavage of the influenzavirus haemagglutinin and other viral glycoproteins The risk for a world wide influenza pandemic is a national and international challenge Influenza viruses and MAP kinase cascades Novel targets for an antiviral intervention Lipid rafts in immune cell signalling and viral infection Receptor specificity host range and cellular tropism of influenza viruses Influenza virus budding the role of host and virus components Membrane accumulation and lipid raft association of influenza A virus haemagglutinin triggers signalling and nuclear export of the viral genome Glycosylation lessons from viruses and protozoa Dissecting the influenza virus genome Molecular biology of the pathogenesis of Sendai virus host range mutant F1 R Recent structural studies of influenza haemagglutinin A new approach of a live virus vaccine by modification of the cleavage site of the Influenza virus haemagglutinin by reverse genetics Cell entry of Influenza virus by membrane fusion The outbreak of H5N1 highly pathogenic avian Influenza in asia and pandemic preparedness Influenza The role of migrating birds in past and future influenza pandemics

Influenza Vaccines for the Future Rino Rappuoli, Giuseppe Del Giudice, 2010-10-28 The emergence of H5N1 avian influenza in 1997 and of the influenza A H1N1 of swine origin in 2009 calls for new rapid and sustainable solutions for both seasonal and pandemic influenza viruses During the last ten years science and technology have made enormous progress and we are now able to monitor in real time the genetics of viruses while they spread globally to make more powerful vaccines using novel adjuvants and to generate viruses in the laboratory using reverse genetics This volume not only provides state of the art information on the biology of influenza viruses and on influenza vaccines but is also designed to be a resource to face the present H1N1 pandemic and to plan for long term global and sustainable solutions

Insight into Influenza Viruses of Animals and Humans Sanjay Kapoor, Kuldeep Dhama, 2014-03-31 This book provides salient information on all aspects of influenza flu viruses affecting animals and humans It specifically reviews the properties and replication of influenza viruses their evolution and emergence epidemiology role of migratory birds in disease transmission clinical signs in humans animals and poultry pathogenesis and pathogenicity public health importance and potential threats diagnosis prevention and control measures and pandemic preparedness Influenza flu viruses evolve continuously and jump species causing epidemics as well as pandemics in both human and animals During the past 150 years various strains of influenza virus like the Spanish flu Asian flu Hong Kong flu bird flu and swine flu were responsible for high mortality in humans as well as birds High mutation rates antigenic shifts drifts reassortment phenomena and the development of antiviral drug resistance all contribute to ineffective chemotherapy and vaccines against influenza viruses Due to their devastating nature high zoonotic implications and high mortality in humans and poultry they have a severe

impact on the socioeconomic status of countries Disease awareness rapid and accurate diagnosis surveillance strict biosecurity timely adoption of appropriate preventive and control measures and pandemic preparedness are crucial to help reduce virus transmission thus reducing clinical cases deaths and pandemic threats

Influenza viruses: Infection, pathogenesis, and host responses Quanjiao Chen, Yizhi Tao, Dayan Wang, 2023-04-27

Influenza viruses: Infection,

Influenza Virus Yohei

Yamauchi, Maria João Amorim, 2025-01-31 This fully updated volume presents protocols crucial for contemporary influenza virus research placing a special emphasis on the latest advancements in imaging technologies including super resolution microscopy cryo electron tomography cryo ET freeze replica electron microscopy and high speed atomic force microscopy AFM In addition to covering traditional methods like virus purification this edition introduces innovative approaches for visualizing molecular interactions between viral proteins and host proteins methods for developing physiological cell culture models and animal models as well as concepts concerning the prediction of viral evolution and the utilization of artificial intelligence in infection biology research Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and up to date Influenza Virus Methods and Protocols Second Edition serves as an ideal guide for researchers looking to deepen our understanding of the intricate interplay between viruses and host cells

Influenza: A Century of Research Irina Kiseleva, Natalie Larionova, 2021-07-07 Influenza is one of the most ancient and intriguing diseases that has been accompanying our civilization for millennia While mankind has successfully defeated many dangerous influenza infections in the last couple of centuries influenza control remains a serious problem for public health A number of influenza vaccines and antiviral compounds have been licensed in recent times However the influenza virus is still ahead of us as it continues to persistently infect humans to this day Influenza A Century of Research shows how influenza virology has developed historically and the tremendous knowledge that has been uncovered in the study of influenza In this monograph the authors present a historical perspective on influenza chronologically with an emphasis on its virology Chapters cover information about the isolation of the first influenza viruses substrates and models for studying influenza structure and life cycle of the influenza virus mechanisms of attenuation and virulence Chapters progress into the multidisciplinary aspects of influenza research such as influenza virus ecology and the evolutionary origin of epidemic and pandemic influenza viruses A significant part of the book also covers the description of the prevention and treatment of influenza and reasons that have contributed to insufficient control for influenza The questions of how the COVID 19 pandemic affects the circulation of seasonal respiratory viruses and if we can eliminate this virus are also addressed Influenza A Century of Research is an informative source of information for a broad range of readers academic or otherwise who are interested in knowing more about the disease

Influenza Virus Sialidase - A Drug Discovery Target Mark Itzstein, 2011-09-01 Influenza continues to be an ongoing

problem despite the existence of vaccines and drugs Disease outbreaks can occur relatively quickly as witnessed with the recent emergence of the influenza virus A H1N1 pandemic The development of new anti influenza drugs is thus a major challenge This volume describes all aspects of the virus structure and function relevant to infection The focus is on drug discovery of inhibitors to the enzyme sialidase which plays a key role in the infectious lifecycle of the virus Following an overview of the influenza virus the haemagglutinin the interactions with the cell receptors and the enzymology of virus sialidase recent results in drug design are presented These include a full coverage of the design synthesis and evaluation of carbohydrate as well as non carbohydrate influenza virus sialidase inhibitors Further reviews of the clinical experience with influenza virus sialidase inhibitors and of the development of resistance to these inhibitor drugs complement the topic

Influenza Virus: The Inevitable Enemy Fu Gao,Huan Liu,2023-09-13 This book will guide readers through the history of the flu In ten chapters it explains Influenza in a simple way Influenza always seems to have endless topics The flu virus seemingly tiny has brought on one disaster after another to human beings 2018 is the 100th anniversary of the outbreak of the 1918 Flu that swept the world The flu a century ago claimed nearly one twentieth of human life on the planet It became the most deadly flu in human history This book introduces the past and present life of the influenza virus in a light hearted way leading the reader to review the past from the history of the flu the development of the flu human immunity and health impacts on society and the country Through touching stories illustrations and diagrams it tells the great discoveries and related advances in science and technology introduces medical knowledge related to influenza and reviews the medical effectiveness in preventing influenza thus displaying the ongoing battle between humans and the flu virus Looking back at the development of science and technology humans have relentlessly sought the prevention and control of this infectious disease constantly guarding the path of life and health which gradually becomes a quiet past but only to awaken again and again

The Influenza Viruses L. Hoyle,2014-04-18 **Influenza Virus and Vaccination** Marta L. DeDiego,Aitor Nogales,2020-05-28 The influenza virus poses a threat to human health and is responsible for global epidemics every year In addition to seasonal infections influenza can cause occasional pandemics of great consequence when novel viruses are introduced into humans Despite the implementation of comprehensive vaccination programs influenza viruses continue to pose an important and unpredictable global public health threat They are one of the most significant causes of morbidity and mortality each year and have a significant economic impact In recent years research has been conducted to find alternative approaches to influenza vaccine development including the generation of universal vaccines Notably significant progress in the field of influenza infection transmission and immunity have contributed to our understanding of influenza biology and to expanding the technological approaches for the generation of more efficient strategies against influenza infections Moreover highly remarkable developments have been made in the implementation of new methodologies to evaluate the efficiency of vaccines and improve them for use on domestic animals such as poultry horses dogs or pigs This enables us to decrease the

exposure of humans to potentially pandemic viruses The articles in this Special Issue will address the importance of influenza to human health and the advances in influenza research that have led to the development of better therapeutics and vaccination strategies

Understanding Viruses Teri Shors, 2009 Combining the molecular clinical and historical aspects of virology Understanding Viruses is a textbook for the modern undergraduate virology course The text provides an introduction to human viral diseases Additional chapters on viral diseases of animals the history of clinical trials gene therapy and xenotransplantation prions and viroids plant viruses and bacteriophages add to the coverage Jacket

OSHA Guidance on Protecting Employees from Avian Flu (Avian Influenza) Viruses Barry Leonard, 2009-05 Contents Guidance for Poultry Employees Animal Handlers Lab Employees Healthcare Workers Food Handlers Airport Personnel Travelers on Temporary Work Assignment Abroad U S Employees Stationed Abroad Others That May Be at Risk Employee Training Appendices Worldwide Occurrence of the H5N1 Virus Background on the Biology of Influenza Viruses Genetic Variations in H5N1 Strains and Implications for Human Health Survival and Inactivation of Influenza A Viruses incl H5N1 Transmiss of the H5N1 Virus Symptoms and Outcomes of H5N1 Infection in Hospitalized Patients Importation Ban on Birds from Countries Affected by the H5N1 Virus and History of Human Influenza Pandemics

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 threat for human being Traditional vaccines attenuated and inactivated mainly provide protection by inducing virus neutralizing antibodies targeting ever changing surface antigens Haemagultinin 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 vaccines 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 mean 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 in to 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

Structural Biology for Virus Research Akio Adachi, Yasuyuki Miyazaki, Masako Nomaguchi, Mikako Fujita, Viruses are absolutely and strictly dependent on target host cells for their replication However they have their own unique strategies at each replication step from the entry into cells transcription translation assembly of viral genome proteins and up to the release of progeny virions from cells We virologists have to understand these complex biological interactions between viruses and host cells Importantly extensive studies based on bio structural technology have revealed in succession the detailed and bottom line mechanisms of viral replication processes otherwise impossible We now know the highly dynamic nature of viral genome proteins and are impressed by their ingeniously organized functionality in hostile host environments For characterization of viruses as a unique genetic entity and pathogenic agent it has been critical to investigate thoroughly the individual viral components and host factors involved in the virus replication cycle Because many viral and cellular factors essential for viral replication and pathogenicity have been newly discovered through the efforts of virologists the necessity of contribution to the progress of virology by the structural biology is now greatly increasing To fully understand precise mechanisms underlying the functional interaction of viral and host molecules needless to say it is crucially required to have their structural information We need to know molecular details of the nucleic acids proteins and interacting molecules The information indispensable for understanding certain biological phenomena may only be provided by high resolution three dimensional structures Of note a number of anti viral drugs have been generated based on the structural information The interacting interfaces between virus and host components which are important for viral replication can be potent targets for anti viral drugs Their structural characterization would lead to designing rigid anti viral drugs and or vaccines In this Research Topic we wish to summarize and review what the structural biology has accomplished so far to resolve the important virological issues We also wish to

describe the perspective of the structural biology for the future virology Finally the presentation of ongoing original works is greatly encouraged Cumulated Index Medicus ,1974 **21st Century Anthropology: A Reference Handbook** H. James Birx,2010-06-10 Highlighting the most important topics issues questions and debates these two volumes offer full coverage of major subthemes and subfields within the discipline of anthropology

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