

1. Record Nr.	UNINA9910298278803321
Titolo	Influenza Pathogenesis and Control - Volume II // edited by Michael B. A. Oldstone, Richard W. Compans
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-11158-2
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (478 p.)
Collana	Current Topics in Microbiology and Immunology, , 0070-217X ; ; 386
Disciplina	610 613 614.44 615372 616.9 616079
Soggetti	Immunology Vaccines Infectious diseases Health promotion Vaccine Infectious Diseases Health Promotion and Disease Prevention
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	The role of cytokine responses during influenza virus pathogenesis and potential therapeutic options -- Innate immune sensing and response to influenza -- The NS1 protein: a multitasking virulence factor -- Role of NK cells in influenza infection -- Host detection and the stealthy phenotype in influenza virus infection -- Inactivated and adjuvanted influenza vaccines -- Live attenuated influenza vaccine -- Design of alternative live attenuated influenza virus vaccines -- Rapid production of synthetic influenza vaccines -- Influenza neuraminidase as a vaccine antigen -- Advances in universal influenza virus vaccine design and antibody mediated therapies based on conserved regions of the

hemagglutinin -- Structural characterization of epitopes recognized by broadly cross-reactive antibodies -- Skin immunization with influenza vaccines -- Mucosal immunization and adjuvants -- B cell responses to infection and vaccination -- Memory CD4 T cells in influenza -- The effector T cell response to influenza infection -- Antiviral Effects of Inhibiting Host Gene Expression. .

Sommario/riassunto

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. .
