

# Perspectives in Virology

Pollard, M et al

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# Pollard Perspectives In Virology

**Wilson Greatbatch**



## Pollard Perspectives In Virology:

Mechanisms of Viral Pathogenesis A. Kohn, P. Fuchs, 2012-12-06 Venezuelan equine encephalitis VEE virus was first isolated in 1938 by Kubes and Rios 1 from the brain of a horse which died during an epizootic of a previously unrecognized disease in Venezuela VEE related viruses were subsequently isolated during the period of 1943-1963 in Venezuela Colombia Peru Trinidad Brazil Surinam Argentina Panama Mexico and the United States 2 Shope et al 3 first defined the viruses in the VEE complex by showing serological relationships between classical VEE lucambo and Pixuna viruses Young and Johnson 2 serologically characterized a variety of VEE isolates and proposed that the complex be divided into four subtypes I II III and IV Viruses in subtype I were divided into five variants designated IA through IE During 1969-1971 a VEE epizootic epidemic occurred in South America Central America and the United States involving a subtype IAB virus which caused high mortality among equines and human disease 4 Venezuelan equine encephalitis viruses are alpha togaviruses which contain a positive strand ribonucleic acid genome enclosed in an icosahedral nucleocapsid The virion has an envelope which contains blood glycoproteins E2 of 56 000 daltons gp56 and E1 of 80 000 daltons gp50-56 Viral neutralization N and hemagglutination HA sites have been placed on E2 by the use of monospecific rabbit antiserum and monoclonal antibodies specific for purified viral structural proteins 7-10 Only anti E2 antiserum neutralized virus infectivity or blocked virus hemagglutination

*Perspectives in Virology. A Symposium. (The Gustav Stern Symposium.) Edited by M. Pollard* Morris POLLARD, 1959 National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1965 **Current Catalog** National Library of Medicine (U.S.), 1979 First multi year cumulation covers six years 1965-70 The Making of the Pacemaker Wilson Greatbatch, 2011-03 Wilson Greatbatch an electrical engineer in Buffalo NY had a brilliant idea and the technical know how to turn his idea into a practical device for which millions of people today are grateful This is the story of the first pacemaker by the man who invented it Intrigued by electronics from the time he was a boy Greatbatch earned a degree in electrical engineering from Cornell University It was during his time at Cornell that he first became interested in the medical applications of electronic devices He learned about the problem of heart blocking at Cornell and knew it was fixable in principle but at the time the vacuum tube technology was impractical for medical use By the 1950s he was teaching at the University of Buffalo School of Electrical Engineering and the first silicon transistors had just been invented While using one of the new 90 transistors on another project Greatbatch discovered by accident as he describes it the proper design for a blocking oscillator that he immediately knew would work as a pacemaker He soon interested Dr William Chardack chief of surgery at the Veterans Administration Hospital in Buffalo in the project and by 1958 they were conducting animal experiments Greatbatch quit his job and for the next two years devoted full time in his wood heated barn workshop to building one pacemaker after another During this time he built fifty pacemakers forty of which went into animal experiments By 1960 he and a team of surgeons and engineers had gained enough knowledge from the trial and error of the animal

experiments to feel ready to begin implanting the remaining ten devices in people The first trials went well and Greatbatch's device extended the lives of many of these seriously ill patients by decades What followed were years of hard work refining the battery and electrode technology marketing the pacemaker to an initially skeptical medical community and keeping the company that manufactured the device profitable Reminiscent of Edison's many dogged attempts to find the right solution in pursuit of an ingenious idea The Making of the Pacemaker is a human interest story at its best and also an important firsthand account for the medical archives of an invention that today saves millions of lives

**Chemistry of Viruses** C.A. Knight, 2012-12-06 In 1963 the first edition of Chemistry of Viruses was published as a contribution to the series on viruses sponsored by Protoplasmatologia An aim of the first edition was to review some major principles and techniques of chemical virology in a concise manner and to accompany this review with a compilation of pertinent references It was anticipated that this exercise would be helpful to the author in his teaching and research and hopefully would be useful to readers as well The literature of virology has grown enormously since then and it is even more urgent to have a succinct survey In addition few authors have attempted to integrate the findings pertaining to the various major classes of viruses that is animal bacterial and plant viruses but rather have chosen to assemble large monographs dealing in depth with facts and fancies pertaining to specific groups of viruses Such works are valuable for pursuit of particular topics but fail to yield a brief integrated view of virology The present edition of Chemistry of Viruses aspires to such a review A serious attempt was made to deal concisely with every major topic of chemical virology and to present examples from different classes of viruses Numerous references are given to original articles and review papers as well as to selected books

**Virus Life in Diagrams** Hans-Wolfgang Ackermann, Laurent Berthiaume, Michel Tremblay, 2021-06-23 This atlas presents 233 virus diagrams selected for their scientific content clarity originality and historic didactic and aesthetic value Virus Life in Diagrams assembles the many diagrams of viral life cycles particle assembly and strategies of nucleic acid replication that are scattered throughout the literature The diagrams cover vertebrate invertebrate plant bacterial fungal and protozoal viruses viroids and prions They offer a dynamic illustration of the time course of viral life cycles not available in photographs They also offer speculative elements that project the possible results of future research as well as historical documentation that shows the development of virology This valuable reference book for virologists microbiologists molecular biologists geneticists and students in these areas is the first atlas to compile illustrations of viral morphogenesis in one complete source

**Pathobiology of Cell Membranes** Benjamin F. Trump, Antti U. Arstila, 2013-10-02 Pathobiology of Cell Membranes Volume II is the second in a multivolume treatise on pathobiological aspects of cell membranes that aims to give the reader an overview of developments concerning the role of altered cell membranes in various pathological processes This volume includes not only information on pathobiological aspects of cell membranes as studied at the molecular and subcellular level but also important new advances in the role of membranes in human diseases such as multiple sclerosis shock lung muscle dystrophies and hematological

disorders The book begins by discussing a very important and yet poorly known aspect of cellular metabolism namely the compartmentalization of intracellular cations such as sodium calcium and magnesium This is followed by separate chapters on fundamentals of membrane conformational changes in the erythrocyte model the structure and function of peroxisomes and their role in disease processes the use of invertebrate models for studies of pathological reactions and reactions of lysosomes to cellular injury Subsequent chapters deal with the pathology of skeletal muscle membranes the shock lung syndrome cellular mechanisms involved in jaundice and cholestasis and pathology of the endothelium Neonatal Hepatitis and Biliary Atresia ,1979 **Journal of the National Cancer Institute** National Cancer Institute (U.S.),1976 **Journal** National Cancer Institute (U.S.),1962 *Viral Immunology and Immunopathology* Abner Louis Notkins,2014-06-28 *Viral Immunology and Immunopathology* covers topics concerning the role of cellular and humoral immunity in viral infections factors responsible for the persistence and recurrence of viral infections in the presence of immunity mechanisms of viral immunopathology and concepts in the development of vaccines The book describes the history of viral immunology the synthesis and properties of viral antigens and the humoral immune response to viruses The text also discusses the mechanisms of viral neutralization cellular immunity the role of inflammatory cells and effector molecules in combating viral infections and the genetic control of resistance The book concludes with chapters on herd immunity viral immunopathology and viral immunology and immunopathology Immunologists pathologists virologists and microbiologists will find the book useful **The Prevention of Mental Retardation Through Control of Infectious Diseases** ,1968 *Public Health Service Publication* , Virus Receptors K. Longberg-Holm,2013-03-09 It is hardly necessary to define the concept of receptors to readers of this series but it should be borne in mind that in several instances receptors are undefined entities whose molecular details remain to be established On the other hand the ligand which recognizes the receptors has been identified and characterized in most cases The current interest in the structure and function of biological membranes gives great expectations that we may understand in the near future the details of ligand receptor interaction This interaction involves two defined steps the first usually referred to as recognition is followed by the second step transduction in which the ligand receptor interaction is translated by the cell into a biochemical action The present two volumes which cover prokaryotic and eukaryotic virus receptors have been published together in order to illustrate the specificity of virus receptor recognition which appears to be a guiding principle for both bacteria and higher cells The identification and characterization of the receptors for phages of gram negative bacteria has to a large extent relied on the genetic techniques available for these organisms In a similar way the availability of genetic systems has also clarified the interrelationship between animal retrovirus receptors even if the molecular structure remains to be determined The paucity of defined genetic systems may therefore explain part of our ignorance concerning the molecular details of virus receptors on human cells and possibly also on gram positive bacteria International Review of Cytology ,1983-02-22 *International Review of Cytology* *The*

*Molecular Biology of Poliovirus* F. Koch, G. Koch, 2012-12-06 Years ago when we were asked to write a book on the present day knowledge of the molecular biology of poliovirus we did not expect that such an apparently simple task could involve so much time and effort Our writing was hampered by the fact that both of us are full time workers so that this monograph is mainly a spare time expedience The main attention of this book focuses on a detailed review of the molecular biology of poliovirus and especially on the advances of the last decade medical and environmental aspects are only briefly mentioned Observations from older studies are considered in view of more recent information Some of the older observations provided fundamental insights and paved the way for present day research too often such data has been neglected or independently rediscovered Today poliovirus research has again attracted considerable interest High points gained within the last few years were the elucidation of the complete nucleotide sequences of the RNAs of the three poliovirus serotypes and the corresponding vaccine strains the demonstration of genome evolution during transmission of poliovirus in an epidemic further characterization of the antigenic sites on the virus particle and of the antigenic drift characterization of alternate conformational states of the virion capsid the development of monoclonal antibodies against some of the virus proteins observations on the role of the plasma membrane cytoskeleton and cytoplasmic membranes as mediators in the virus induced redirection of the synthetic machinery of the host cell and characterization

**The Molecular Basis of Viral Replication** R. Bercoff, 2012-12-06 the discovery of the splicing of the gene transcripts the list would include the whole molecular genetics of the lambda bacteriophage the notions of promoter repressor and integration the discovery of the reverse flow of genetic information the very existence of oncogenes the 5' terminal cap structure of eukaryotic mRNAs Electron microscopy ultracentrifugation and tissue culture were the landmarks on the way of the young science During the past few years however a major and not so silent revolution took place recombinant DNA technology with all its might entered in our laboratories and restriction mapping of cloned genomes and sequencing gels have replaced plaque counting and sucrose gradients The new techniques have made it possible to dissect the entire genome of a virus at the molecular level and studies that would have been dreamt of just in the mid seventies became the everyday experiments of our days With new insight into the structure of viral genomes and a deeper understanding of the mechanisms that regulate their expression our view of viruses was bound to change this volume bears witness to this impressive advance

**Advances in Virus Research**, 1969 Advances in Virus Research covers a diverse range of in depth reviews providing a valuable overview of the current field of virology The series of eclectic volumes are valuable resources to virologists microbiologists immunologists molecular biologists pathologists and plant researchers

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