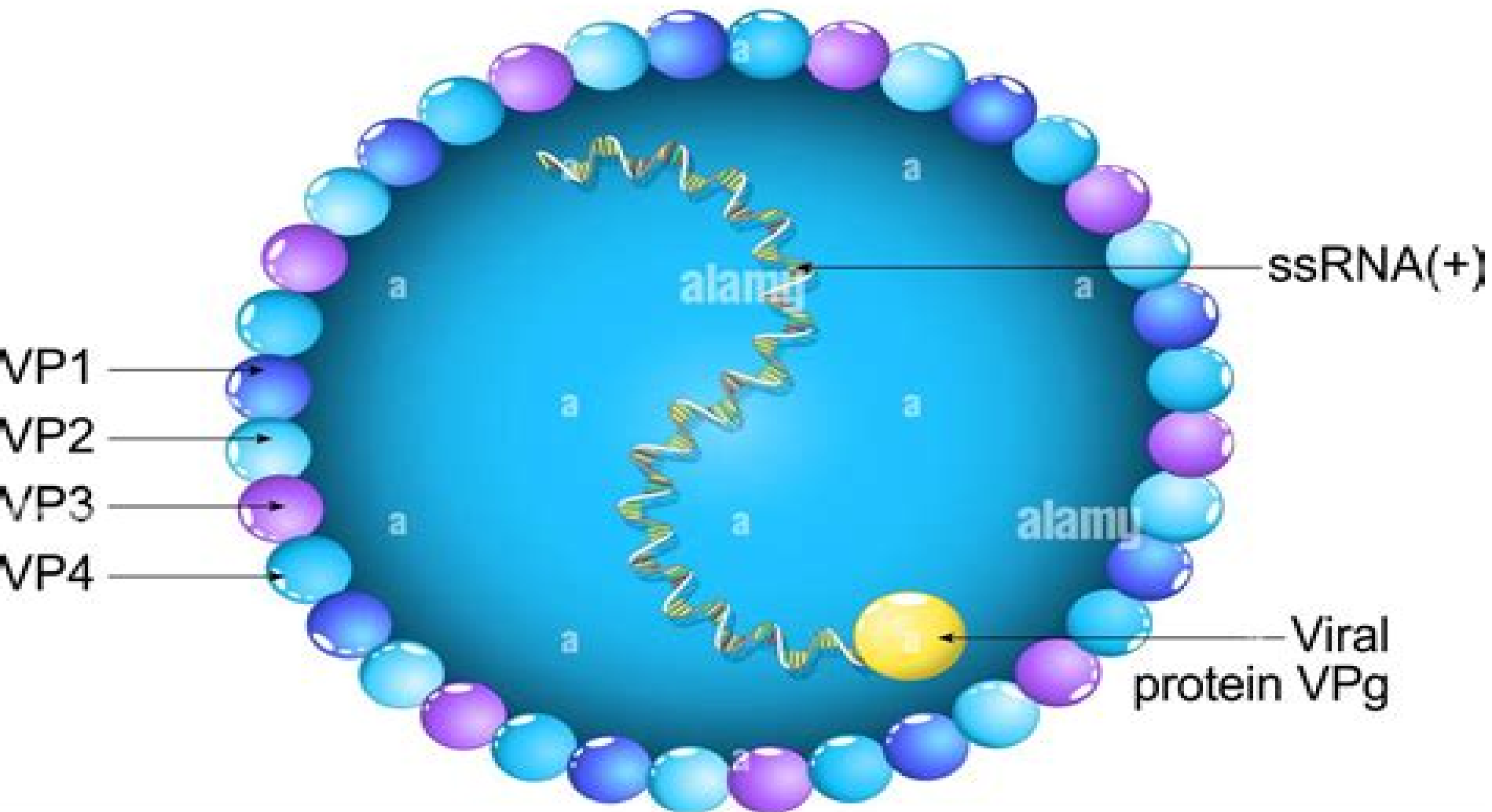


Poliovirus



The Molecular Biology Of Poliovirus

Lingjun Ying



The Molecular Biology Of Poliovirus:

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 polioviruses 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

Poliovirus Javier Martín, 2016-03-17 This volume describes the most common laboratory procedures for isolation identification and characterization of polioviruses used in clinical and research laboratories Written for the Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and practical Poliovirus Methods and Protocols aims to ensure successful results in the further study of this vital field

Molecular Biology of Picornaviruses Bert L. Semler, Eckard Wimmer, 2002

Biomedical Index to PHS-supported Research, 1991

Viral Infections of Humans Alfred S. Evans, 2013-11-11 also occurs New outbreaks of yellow fever have occurred in Colombia and Trinidad and new outbreaks of rift valley fever have occurred in Egypt Chapter 6 Arenaviruses The biochemical and physical properties have now been clarified and they show a remarkable uniformity in the various viruses constituting the group The possibility that prenatal infection with LCM may result in hydrocephalus and chorioretinitis has been raised Serologic surveys have suggested the existence of Lassa virus infection in Guinea Central African Empire Mali Senegal Cameroon and Benin in addition to earlier identification in Nigeria Liberia and Sierra Leone Chapter 7 Coronaviruses New studies have confirmed the important role of these viruses in common respiratory illnesses of children and adults The viruses are now known to contain a single positive strand of RNA About 50% of corona virus infections result in clinical illness About 5% of common colds are caused by strain DC 43 in winter Chapter 8 Cytomegalovirus Sections on

pathogenesis of CMV in relation to organ transplantation and mononucleosis as well as sections on the risk and features of congenital infection and disease have been expanded There are encouraging preliminary results with a live CMV vaccine but the questions of viral persistence and oncogenicity require further evaluation Viral Genome Replication Craig E. Cameron, Matthias Gotte, Kevin Raney, 2009-05-28 This book provides the first comprehensive review of viral genome replication strategies emphasizing not only pathways and regulation but also the structure function mechanism and inhibition of proteins and enzymes required for this process **Exploring the Role of Antiviral Drugs in the Eradication of Polio** National Research Council, Division on Earth and Life Studies, Board on Life Sciences, Committee on Development of a Polio Antiviral and Its Potential Role in Global Poliomyelitis Eradication, 2006-06-04 Exploring the Role of Antiviral Drugs in the Eradication of Polio Workshop Report is a report of a workshop in which experts evaluated whether an antiviral drug against poliovirus would be helpful in the final stages of the global polio eradication campaign The World Health Organization currently plans to stop using oral polio vaccine three years after the detection of the last case of transmission of wild polio virus This is because the vaccine contains live weakened polio viruses that can spread and revert to virulence in populations that have not been immunized Under this plan an antiviral drug could be useful to control any polio outbreaks caused by a vaccine derived virus that might occur after vaccination ends and the number of unimmunized people in the world steadily increases The report recommends that planning and development of such drugs should be initiated now It identifies several promising targets for drug development and outlines the steps needed for planning for clinical trials and regulatory approval

Positive-Strand RNA Viruses Margo A. Brinton, Charles H. Calisher, Roland Rueckert, 2012-12-06 Positive strand RNA viruses include the majority of the plant viruses a number of insect viruses and animal viruses such as coronaviruses togaviruses flaviviruses poliovirus hepatitis C and rhinoviruses Works from more than 50 leading laboratories represent latest research on strategies for the control of virus diseases molecular aspects of pathogenesis and virulence genome replication and transcription RNA recombination RNA protein interactions and host virus interactions protein expression and virion maturation RNA replication virus receptors and virus structure and assembly Highlights include analysis of the picornavirus IRES element evidence for long term persistence of viral RNA in host cells acquisition of new genes from the host and other viruses via copy choice recombination identification of molecular targets and use of structural and molecular biological studies for development of novel antiviral agents *Research Awards Index*, 1989 **Advances in Virus Research**, 1996-02-07 Among the topics covered are Poliovirus assembly and encapsidation of genomic RNA HIV type 1 reverse transcriptase Mechanisms of persistence and associated disease Genome rearrangements of rotaviruses Luteoviruses Hepadnaviruses Iridoviruses

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