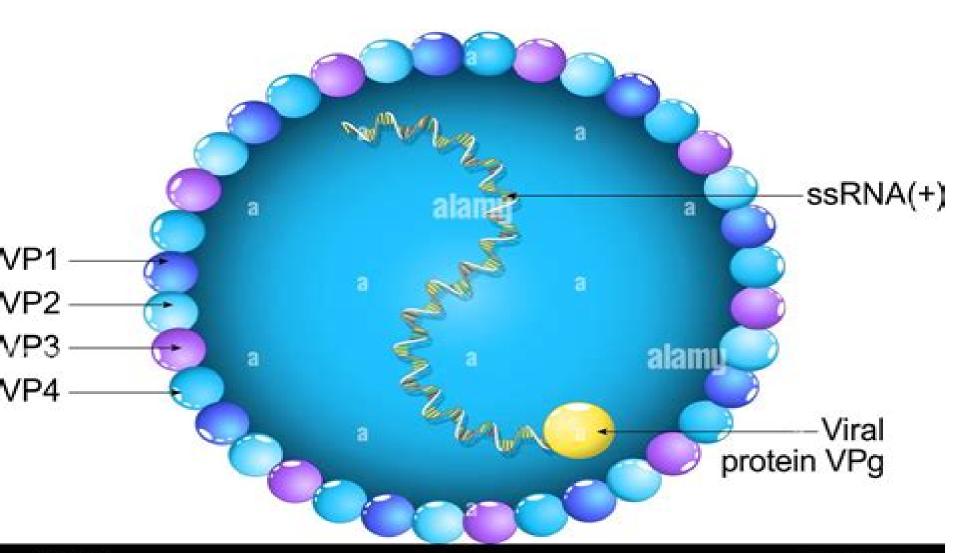
# Poliovirus



# **The Molecular Biology Of Poliovirus**

**Bert L. Semler, Eckard Wimmer** 

#### 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 ob servations 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 poliovinls 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 characteriza **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 Evans, 2013-11-11 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 **Virology** Allan Granoff, Robert G. Webster, 1999-07-27 In recent years progress in the field of virology has advanced at an unprecedented rate Issues such as AIDS have brought the subject firmly into the public domain and its study is no longer confined solely to specialist groups The Encyclopedia of Virology is the largest single reference source of current virological knowledge It is also the first to bring together all aspects of the subject for a wide variety of readers Unique in its use of concise mini review articles the material covers biological molecular and medical topics concerning viruses in animals plants bacteria and insects More general articles focus on the effects of viruses on the immune system the role of viruses in disease oncology gene therapy and evolution plus a wide range of related topics Drawing on the latest research the editors have produced the definitive source for both specialist and general readers Easy to use and meticulously organized the Encyclopedia of Virology clarifies and illuminates one of the most complex areas of contemporary study It will prove an invaluable addition to libraries universities medical and nursing schools and research institutions around the world The Second Edition has been thoroughly updated with approximately 40 new articles This edition includes more illustrations and color plates in each volume Updated thoroughly with approximately 40 new articles Presents more illustrations than the first edition with color plates in each volume Contains a complete subject index in each volume Provides further reading lists at the end of each entry allowing easy access to the primary literature Extensive cross referencing system links all related articles Contains the most recent information of particular viruses described at the 7th International Committee on Taxonomy and Classification of Viruses Provides the ability to search for entries alphabetically or via the taxonomical listings to access articles of different viruses 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 **Biomedical Index to** 

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