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COMMON MECHANISMS OF TRANSFORMATION BY SMALL DNA TUMOR VIRUSES

Edited by Luis P. Villarreal, Cancer Research Institute, University of California, Irvine

Small DNA tumor viruses, i.e., polyomavirus, papillomavirus, and adenovirus, have long been of major interest, primarily because they have been shown to cause cancers. An in-depth examination of their common mechanisms of cell transformation is the focus of this volume, arising from the 1989 ICN-UCI International Conference on Virology.

November 1989
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PHYSICAL AND GENETIC MAP OF ESCHERICHIA COLI

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The Journal of Bacteriology will publish in brief text or tabular form and on a quarterly basis the physical locations of genes and loci assigned to the Escherichia coli chromosome. This information can be presented by the unambiguous identification of a matching restriction pattern or by the assignment of a gene or locus to a particular λ phage from the "Miniset" library. Manuscript should be submitted in duplicate to the ASM Publications Department. All parts must be typed double spaced. Galley proofs will not be sent to the authors, and no page charge(s) will be assessed for these contributions. Reprints will not be available. For a more complete description of these submissions, see the January 1990 issue of ASM News, p. 6–7.

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THE LATEST INFORMATION ON SOME VIRUS "SUPERFAMILIES"—
NEW ASPECTS OF POSITIVE-STRAND RNA VIRUSES

EDITED BY MARGO A. BRINTON
AND FRANZ X. HEINZ

This book presents the latest thinking on positive-strand RNA viruses. These include the majority of plant viruses, insect viruses, and animal viruses, including picornavirus, coro-
navirus, togavirus, flavivirus, poliovirus, and rhinovirus. Arising from the 2nd Interna-
tional Symposium on Positive-Strand RNA Viruses, held in Vienna, Austria, in June 1989, the book is a compendium of reviews of exciting research in this dynamic field currently being performed at over 40 laboratories.

At one time considered divergent in structure, the viruses of the sindbis, polio, and coronavirus superfamilies are increasingly known to share important similarities which allow them to shuffle conserved amino acid units to form new viruses. The implications for plant, animal, and human viral studies, including vaccine and antiviral-compound development, are serious. In addition, the book gives new insight into the diversity of the structure of picornaviruses. The first animal viruses to be crystallized, the picornaviruses have had enormous influence on subsequent discussions of viral structure. Several color plates illustrate the structural projections of these viruses and add to the book’s overall usefulness.

The book will be valued both as an update for virologists, molecular biologists, viral immunologists, medical virologists, and researchers in vaccine development and antiviral compounds and as supplemental reading for basic virology courses in medical schools and universities. In addition, it is highly recommended for advanced courses in positive-strand RNA virology.

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Molecular Aspects of Picornavirus Infection and Detection

Edited by Bert L. Semler, University of California, Irvine, and Ellie Ehrenfeld, University of Utah Medical School, Salt Lake City

In the past two years, giant strides have been made in our knowledge of the molecular biology and structure of picornaviruses. The complete three-dimensional structures of rhinovirus and poliovirus have now been solved through X-ray crystallographic studies, yielding much important information about the antigenic regions of viral proteins and the relationship of viral structure to antibody accessibility, with important implications for vaccine design. These three-dimensional structures have provided new insight into the mechanism of action of several antiviral compounds.

This very timely book presents our current understanding of the biology of these viruses in the context of clinical implications. Virologists, molecular biologists, and clinical researchers will all find this book useful and interesting reading. Based on the 1988 ICN-UCI International Conference on Virology, Newport Beach, Calif.

CONTENTS

I. Molecular Biology of Viral Replication: Use of Mutagenesis Cartridges in Molecular Genetic Analyses of Poliovirus (Bradley et al.); Replication of Hepatitis A Virus (Ticehurst et al.); Comparison of Encephalomyocarditis Virus and Poliovirus Translation Initiation and Processing In Vitro (Jackson); Molecular Biology and Genetics of Poliovirus Protein Processing (Dewalt and Semler); Poliovirus RNA Polymerase Expressed in E. coli (Ehrenfeld and Richards); A Large Segment of Poliovirus 5' Noncoding Region Allows Cap-Independent Translation of Downstream Sequences in Mammalian Cells (Trono et al.)

II. Virion Structure and Cell Surface Interactions: Structural Basis for Serotypic Differences and Thermostability in Poliovirus (Hogle et al.); Conformational Adaptations by Picornaviruses to Antiviral Agents and pH Changes (Rossmann); Neutralization of Picornaviruses (Mosser et al.); Molecular and Biochemical Aspects of Human Rhinovirus Attachment to Cellular Receptors (Colonna et al.); Towards a Molecular Vaccine for Foot-and-Mouth Disease (Brown); Antigenic Structure of Hepatitis A Virus (Lemon and Ping)

III. Genetic Determinants of Viral Disease and Applications to Diagnosis: Sequence Alignments of Picornaviral Capsid Proteins (Palmenberg); Human Enterovirus Infections (Rotbart); Modification of Six Amino Acids in the VP1 Capsid Protein of Poliovirus Type 1, Mahoney Strain (Girard et al.); Genetic Analysis of Neurovirology, Using a Mouse Model for Poliomyelitis (Racaniello et al.); Expression of the Attenuation Phenotype of Poliovirus Type 1 (Nomoto et al.); Attenuation and Reversion of the Sabin Type 3 Vaccine Strain (Minor et al.)

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UNIT 8.5 Introduction of Restriction Sites or Directed Mutations into DNA Using PCR, Brendan Cormack, Harvard Medical School

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