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. Historically and because of their structural and functional similarities, these viruses have generally been considered collectively, an approach that also has proven useful because they face common problems in infecting host cells and demonstrate common mechanisms of cell transformation. An in-depth examination of these common mechanisms of cell transformation is the focus of this volume, arising from the 1989 ICN-UCI International Conference on Virology.

The excellent introductory chapter by Villarreal and Fan makes this book useful and informative reading for students as well as virologists, molecular biologists, and oncological researchers.

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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 (Tiechurst 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.)

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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 Neurovirus, 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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