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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, coronaviruses, togavirus, flavivirus, poliovirus, and rhinovirus. Arising from the 2nd International 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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Viruses That Affect the Immune System

Edited by Hung Y. Fan, Cancer Research Institute, University of California, Irvine; Irvin S. Y. Chen, UCLA School of Medicine, Los Angeles, California; Naomi Rosenberg, Tufts University School of Medicine, Boston, Massachusetts; and William Sugden, McArdle Laboratory, University of Wisconsin, Madison

Viral infections in humans or animals almost always affect the host’s immune system. In most cases, the immune system responds by developing a humoral or cell-mediated response, but some viruses can infect immune system cells, causing abnormalities such as autoimmunity, malignancy, or immunodeficiency. Understanding the properties of these viruses, particularly with regard to cells of the immune system, is important to elucidating the mechanisms by which they cause immunological damage.

Many of the viruses that cause immune system abnormalities are retroviruses or herpesviruses. The book commences with the editors’ introductory overview of these major immune system viruses, then continues with four comprehensive sections on their mechanisms and effects. Human and other immunodeficiency viruses, retroviruses including human and murine leukemia viruses, Epstein-Barr virus, and cytomegalovirus are among the pathogens examined in depth.

Molecular biologists, virologists, and researchers into oncology, autoimmunity, and the immunodeficiency syndromes will find this book, the third in a popular series arising from the ICN-UCI Conferences on Virology, a valuable addition to the literature.

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THE RIBOSOME STRUCTURE, FUNCTION, & EVOLUTION

Edited by Walter E. Hill, University of Montana, Missoula; Albert Dahlberg, Brown University, Providence, R.I.; Roger A. Garrett, University of Copenhagen, Copenhagen, Denmark; Peter B. Moore, Yale University, New Haven, Conn.; David Schlessinger, Washington University School of Medicine, St. Louis, Mo.; and Jonathan R. Warner, Albert Einstein College of Medicine, Bronx, N.Y.

This comprehensive overview is a major new addition to literature on the ribosome, covering the structure, function, and evolution of this complex macromolecule in both procaryotic and eucaryotic systems. The authors, an international group of leading experts representing 13 countries, have written and illustrated their chapters for use by all life scientists, including those outside the field.

The book opens with a personal, historical retrospective and summary by Masayasu Nomura, followed by historical insights on ribosome preparation by Alexander S. Spirin. From there, chapters turn to recent developments in every arena of research into the ribosome. Much of the current knowledge about the detailed mechanisms by which the ribosome is involved in protein biosynthesis has only recently been delineated thanks to a host of new research techniques. Additional information about how antibiotics and ribosomes interact and a view of the ribosome in its evolutionary context are also included.

Arisng from the August 1989 International Conference on Ribosomes, this reference will be extremely useful to advanced students as well as investigators whose work either directly or indirectly touches on this subject.

CONDENSED CONTENTS

Historical (2 chapters by Nomura and Spirin). Structure of Ribosomes and rRNA (12 chapters by Noller et al.; Brimacombe et al.; Frank et al.; Boublík, Mandiyan, and Tumminia; Stöffler-Mellicke and Stöffler; Yonath et al.; Ehresmann et al.; Draper; Egeljerg, Larsen, and Garrett; Oakes et al.; Serdyuk et al.; and Wool et al.). Probing rRNA Function (4 chapters by Raaë et al.; Tapprich et al.; Cunningham et al.; and Hill et al.). Initiation (5 chapters by Van Knippenberg; Hartz, McPheeters, and Gold; Guarneri et al.; Merrick; and Munroe and Jacobson). Elongation (8 chapters by Liljas; Rheinberger et al.; Zimmermann, Thomas, and Wower; Wintemeyer, Lill, and Robertson; Barta, Kuechler, and Steiner; Hardesty, Odom, and Czworkowski; Ehrenberg et al.; and Möller). Termination (2 chapters by Tate, Brown, and Kastner and Mungola et al.). Ribosome Formation (7 chapters by Nilsson et al.; Pace and Burgin; Srivastava and Schlessinger; Musters et al.; Warner et al.; Gerbi et al.; and Ware and Khanna-Gupta). Antibiotic Mechanisms and Probes (3 chapters by Cundliffe; Cooperman, Weitzmann, and Fernández; and Ballesta and Lazaro). Translational Fidelity (6 chapters by Kurland et al.; Dix, Thomas, and Thompson; Weiss et al.; Buckingham et al.; Bogosian et al.; and Culbertson et al.). Evolution of Ribosomes (8 chapters by Gouy and Li; Lake; Gray and Schnare; Wittmann-Liebold et al.; Mattheson et al.; Finley, Bartel, and Varshavsky; Amils et al.; and Subramanian, Smooker, and Giese).

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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.

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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 Echoviruses 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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Edited by Carlos Lopez, Ph.D.
Lilly Research Laboratories, Indianapolis, Indiana

Chronic or persistent viral infections are among the leading causes of human suffering and mortality, and the viruses producing these conditions are the subjects of intensive and increasing study. This volume summarizes basic concepts essential for understanding the immunobiology and pathogenesis of persistent virus infections and then presents reviews of recent advances in this field, focusing on infections caused by the human immunodeficiency virus, Epstein-Barr virus, and arenaviruses. Strategies for continued research are also emphasized.

All of the contributors are distinguished scientists now working in basic and applied virology, immunology, and epidemiology. Immunobiology and Pathogenesis of Persistent Virus Infections will be especially valuable to scientists and students seeking an overview of this topic and insight into the pathogenetic mechanisms of less-well-understood viruses such as the human immunodeficiency virus. Researchers already concentrating on specific types of viral infections who wish to know more about other persistent viruses will also find this book useful, as will public health professionals dealing with chronic diseases.

Based on the First International Symposium on Immunobiology and Pathogenesis of Persistent Virus Infections, Atlanta, Ga., in April, 1987. To order, complete and return the form below.

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