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, coronavirus, 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.

Condensed Contents

Overview: Positive-Stranded RNA Viruses: Early History and the Role of Model Viruses (Kaesberg)

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ADP-Ribosylating Toxins and G Proteins

Insights into Signal Transduction

Edited by Joel Moss and Martha Vaughan, National Heart, Lung, and Blood Institute, National Institutes of Health, Bethesda, Maryland

The contents of this important synthesis and the expert contributors span the disciplines of microbiology, biochemistry, molecular biology, and pharmacology to review current knowledge about ADP-ribosylating toxins, guanine nucleotide-binding proteins, receptors, and signal transduction. Recombinant DNA technology has been applied to elucidate the molecular basis of action of these bacterial toxins, which are responsible in part for the syndromes characteristic of a number of infectious diseases.

This book will very effectively update interested scientists and students on the current status of research into ADP-ribosylating toxins and related topics and will point the way for future advances.

CONDENSED CONTENTS

I. Bacterial ADP-Ribosyltransferases: Toxins and Related Proteins (9 chapters by Collier, Bodley and Veldman, Wick and Iglewski, UliAkto- ries and Just, Aktories et al., Mekalanos and Di-Rita, Fishman, and Murphy and Strom)

II. Guanine Nucleotide-Binding Proteins Coupled to Signal Transduction in Animal Cells (13 chapters by Raymond et al., Kaziro, Spiegel, Birnbaumer et al., De Vivo and Gershengorn, Snyderman et al., Serventi et al., Manning, Gautam and Simon, Gibbs et al., Price et al., Takai et al., and Boback et al.)

III. ADP Ribosylation in Bacteria and Animal Cells (6 chapters by Lowery and Ludden, Jacobson et al., Williamson and Moss, Iglewski and Fendrick, Ueda, and Miwa and Sugimura)

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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.

Arising 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.; Boublik, Mandiyan, and Tumminia; Stoffler-Melicke and Stöffler; Yonath et al.; Ehresmann et al.; Draper; Eggberg, Larsen, and Garrett; Oakes et al.; Serdyuk et al.; and Wool et al.). Probing rRNA Function (4 chapters by Rau et al.; Tapprich et al.; Cunningham et al.; and Hill et al.). Initiation (5 chapters by Van Knippenberg; Hartz, McPheeters, and Gold; Gualerzi et al.; Merrick; and Munroe and Jacobson). Elongation (8 chapters by Liljas; Rheinberger et al.; Zimmermann, Thomas, and Wowor; Wintermeyer, 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 Muguia et al.). Ribosome Formation (7 chapters by Nilsson et al.; Pace and Burgin; Siwakstava 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 Lazar). Translational Fidelity (6 chapters by Kurland et al.; Dix, Thomas, and Thompson; Weiss et al.; Buckingham et al.; Bogosian et al.; and Colbertson et al.). Evolution of Ribosomes (8 chapters by Goy and Li; Lake; Gray and Schnare; Wittmann-Liebold et al.; Mattheson et al.; Finley, Bartel, and Varshavsky; Amils et al.; and Subramanian, Smooker, and Ciesi).

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