

RNA Genetics

**Volume II: Retroviruses, Viroids, and RNA
Recombination**

Edited by

**Esteban Domingo, John J. Holland, Paul
Ahlquist**



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Rna Genetics Retroviruses Viroids And Rna Recombination

Thomas P. Pirone, John G. Shaw



Rna Genetics Retroviruses Viroids And Rna Recombination:

RNA Genetics Esteban Domingo, 2018-01-18 This book describes the basic features of virus replication and points out how these features lead into the diverse biologies and genetics of the various viruses

RNA Genetics Esteban Domingo, John J. Holland, Paul Ahlquist, 1988

RNA GENETICS DIR VIRUS REPLIC John J. Holland, Paul Ahlquist, 1988-05-31

Viroids and Satellites Karl Maramorosch, 1991-09-11 This is an essential bench book that describes the molecular biology structure detection purification and pathogenesis of viroids and satellites The volume begins with an overview of the current status of the field followed by four chapters describing details of methodology nucleic acid probes purification sequence variation complementary RNA probes polyacrylamide gel electrophoresis and mutational analysis of viroid movement and pathogenicity Remaining chapters discuss such topics as viroids that cause apple scar disease in China the cadang cadang disease of palms in the Pacific area viroid like satellite RNAs and a comparison of plant viroids with the human pathogenic delta agent The book will be a major reference work on viroids for years to come and an essential resource for virologists molecular biologists microbiologists geneticists biochemists biomedical investigators plant pathologists and agricultural researchers

Plant Molecular Biology 2 R.G. Herrmann, Brian A. Larkins, 2012-12-06 The VI NATO Advanced Study Institute on Plant Molecular Biology held in Elmau Bavaria Germany from 14 to 23 May 1990 brought together representative scientific leaders from all over the world to review their latest results They presented lectures or posters participated in lively discussions educated students and exchanged views and plans for future research in this highly exciting field of science The experiments data and questions were naturally varied but all of them illustrate that the modern techniques of molecular biology complemented by developments in immunology genetics and ultrastructural research have pervaded nearly every branch of biology The presentations show that these approaches have tremendously increased our potential both for fundamental research our understanding of life and by analogy to the precedents of physics and chemistry have led and will continue to lead to engineering sciences and implicitly to new industrial processes Some of these applications are a matter of debate in the public domain today and many feel that the development of industrial gene technology requires the attention of the whole scientific community Nevertheless the implications of this research for the genetic improvement of agricultural plants are profound Some of the near term technologies being developed provide novel approaches for improving the utility of food crops They can also result in reduced dependence on the use of pesticides for food production

RNA GENETICS VARIABILITY RNA Esteban Domingo, 1988-05-31

Biotechnology And Plant Protection: Viral Pathogenesis And Disease Resistance - Proceedings Of The Fifth International Symposium Donald D Bills, Shain-dow Kung, 1995-10-30 This volume emphasizes recent research developments in the field of plant viral pathogenesis and disease resistance focusing on the underlying molecular biology as well as the application of recent advances to agricultural problems Each of the following general topics is covered by four or five chapters genome replication

and expression subviral RNA s virus host interactions and expression of viral genes in transformed plants **Genetic Engineering** Jane K. Setlow,2012-12-06 The current volume covers human gene therapy improving the nutritional value of maize restriction modification enzymes and eight other subjects *Viruses of Fungi and Simple Eukaryotes* Y. Koltin,1988-04-29 *Viruses of Fungi and Simple Eukaryotes* focuses on the developments in and experimental approaches to the study of fungi and simple eukaryotic viruses Emphasizing molecular biology and genetics the book provides the first comprehensive description of lower eukaryotic viruses Featuring the work of more than 45 international authorities the book includes more than 1 000 citations numerous illustrations tables and micrographs It discusses both retrovirus and reovirus systems in simple eukaryotes and examines how simple eukaryotes can serve as important models for research in eukaryotic molecular and cell biology The book also covers a diverse group of RNA and DNA viruses describes possible applications of fungi and simple eukaryotes to biotechnological agricultural and medicinal products and explains the significance of lower eukaryotic viruses to biological control Key topics covered include protein secretion and processing nucleic acid enzymology yeast biology plant pathology and human pathogenic yeast killer systems **Viral Genes and Plant Pathogenesis** Thomas P. Pirone,John G. Shaw,2012-12-06 The chapters in this book represent detailed versions of papers presented at the Symposium on Viral Genes and Plant Pathogenesis held at Lexington Kentucky on October 16 and 17 1989 In selecting topics and authors we attempted to have represented a spectrum of systems which are at the forefront of research on plant virus genes and gene products particularly as they relate to plant disease The book also contains pertinent discussion of the papers presented at the symposium as well as summaries observations and projections of future research directions prepared by the session chairmen We wish to express our appreciation to Dr D L Davis of the R1 Reynolds Tobacco Company for suggesting the organization of the Symposium and the publication of the proceedings and to the R1 Reynolds Tobacco Company for the financial support which made the symposium possible We also wish to thank those of our colleagues in the Department of Plant Pathology University of Kentucky who very ably and in many ways contributed to the organization and conduct of the conference Thomas P Pirone John G Shaw v Contents Preface v Contributors xi INDUCTION OF HOST GENES BY THE HYPERSENSITIVE RESPONSE OF TOBACCO TO VIRUS INFECTION J F Bol C M A van Rossum B C Cornelissen and H J M Linthorst I COAT PROTEIN MEDIATED RESISTANCE IN TRANSGENIC PLANTS Roger N Beachy 13 STRUCTURE AND FUNCTIONS OF TOBACCO MOSAIC VIRUS RNA Yoshimi Okada Tetsuo Meshi and Yuichiro Watanabe **The Retroviridae** Jay A. Levy,2012-12-06 Providing both historical background and recent advances this series reviews in depth the biologic molecular immunologic and pathologic features of this fascinating virus family The current volume focuses on the avian and murine species which have generated novel insights into cancer and the evolution of the retroviridae **The Viroids** T.O. Diener,2012-12-06 More than seven years have passed since the first monograph on viroids was published At that time the existence of viroids as a novel type of pathogen far smaller than viruses had been amply demonstrated and some of their

unusual molecular properties had been elucidated but the entry of molecular biology into viroid research was still in its infancy Since that time our knowledge of the molecular properties of viroids has increased exponentially and viroids have become even more fascinating than was the case seven years ago Today aside from transfer RNA viroids are probably the best known type of RNA at least from a structural standpoint Much less is known of the mechanisms of viroid function such as the exact pathway and enzymology of viroid replication and the biochemistry of viroid pathogenesis Recently however emphasis in viroid research has shifted from structural to functional themes and important beginnings have been made in the elucidation of viroid structure function relationships With the discovery of viroidlike RNAs within the capsids of certain plant viruses and the finding of surprising structural similarities between viroids and plant satellite RNAs the conceptual gap between viroids and conventional viruses has significantly narrowed Even beyond virology connecting links with cellular RNAs have come to light and the long isolation of viroids and viroidologists has come to an end

Virus Variability, Epidemiology and Control Edouard Kurstak, R.G. Marusyk, F.A. Murphy, M.H.V. Van Regenmortel, 2013-11-11

Virus Variability and Impact on Epidemiology and Control of Diseases E Kurstak and A Hossain

I INTRODUCTION An important number of virus infections and their epidemic developments demonstrate that ineffectiveness of prevention measures is often due to the mutation rate and variability of viruses Kurstak et al 1984 1987 The new human immunodeficiency retroviruses and old influenza viruses are only one among several examples of virus variation that prevent or make very difficult the production of reliable vaccines It could be stated that the most important factor limiting the effectiveness of vaccines against virus infections is apparently virus variation Not much is however known about the factors influencing and responsible for the dramatically diverse patterns of virus variability

II MUTATION RATE AND VARIABILITY OF HUMAN AND ANIMAL VIRUSES Mutation is undoubtedly the primary source of variation and several reports in the literature suggest that extreme variability of some viruses may be a consequence of an unusually high mutation rate Holland et al 1982 Domingo et al 1985 Smith and Inglis 1987 The mutation rate of a virus is defined as the probability that during a single replication of the virus genome a particular nucleotide position is altered through substitution deletion insertion or recombination Different techniques have been utilized to measure virus mutation rates and these have been noted in the extent of application to different viruses

Progress in Drug Research JUCKER, 2013-03-07 In the first years of the existence of this series of monographs during the so called Golden Age of drug research the majority of the papers published were mainly concerned with the traditional domains of drug research namely chemistry pharmacology toxicology and pre clinical investigations The series aim was to give coverage to important areas of research to introduce new active substances with therapeutic potential and to call attention to unsolved problems This objective has not changed The table of contents of the present volume makes evident however that the search for new medicines has become increasingly complex and additional new disciplines have entered the research arena The series now includes reviews on biochemical biological immunological physiological and medicinal

aspects of drug research Researchers actively engaged in the various scientific fields forming the entity of drug research can benefit from the wealth of knowledge and experience of the respective authors and will be assisted in their endeavour to discover new pharmaceutical agents Those simply wanting to keep abreast of new developments in the complex multi discipline science can turn to the Progress in Drug Research volumes as an almost encyclopaedic source of information without having to consult the innumerable original publications Volume 33 contains 13 reviews a subject index an index for the close to 400 articles published in the series so far and an author and titles index for all 33 volumes **Molecular Biology** Abraham Marcus,1989-01-01 The Biochemistry of Plants Volume 15 Molecular Biology presents information pertinent to gene expression cytoskeletal proteins and hydroxyproline rich glycoprotein This book discusses the specific gene systems and examines the regulatory regions within the genes Organized into 17 chapters this volume starts with an overview of the important mechanism for regulating gene expression which is significant in the selective turnover of gene products This book then proceeds with a discussion of the concept of protein degradation and the extracellular carriers of genetic information Other chapters review the viral and plasmid systems which are relevant to plants This text discusses as well the phenotypic changes in plants including plant genetic tumor and habituated plant tissues that exhibit hormone autotrophic growth The final chapter examines the importance of genetic manipulation at the cellular level via protoplast fusion cell selection and transformation Biologists biochemists enzymologists biophysicists and plant scientists will find this book extremely useful Molecular Genetic Studies of Defective Interfering RNAs and Host Symptom Determinants of Two Tombusviruses Ya-Chun Chang,1993 *Morphogenesis in Plants* Kalliopi A. Roubelakis-Angelakis,Kiem Tran Thanh Van,2013-06-29 Proceedings of a NATO ASI held in Crete Greece September 5 17 1992 *Intracellular Forms and Possible Origin of a Plant Virus Satellite RNA*. Boni Kathryn Passmore,1990 *Progress in Nucleic Acid Research and Molecular Biology* ,1993-10-14 Progress in Nucleic Acid Research and Molecular Biology **Soviet Genetics** ,1990-10

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