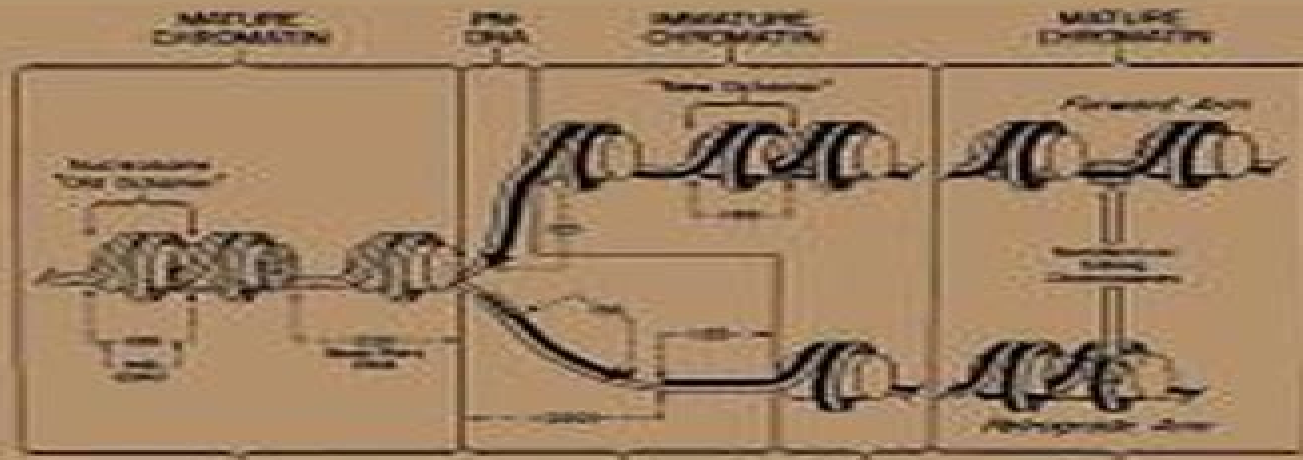


Molecular Aspects of Papovaviruses

edited by Yosef Aloni



DEVELOPMENTS IN MOLECULAR VIROLOGY

Martinus Nijhoff Publishing

Molecular Aspects Of Papovaviruses

Y. Aloni



Molecular Aspects Of Papovaviruses:

Molecular Aspects of Papovaviruses Y. Aloni, 2012-12-06 It is almost twenty years since the first DNA tumor virus meeting was held at Cold Spring Harbor. At this meeting studies on three tumor viruses were discussed: the papovaviruses, the adenoviruses, and the herpesviruses. The present series *Developments in Molecular Virology* chose to reverse this sequence by first publishing books on the herpesviruses followed by adenoviruses and only now the papovaviruses. All the DNA tumor viruses gained their original reputation by serving as model systems in animal cells for studying gene expression and gene regulation, but SV40 and polyoma have been the jewel in the crown in these studies. As a phage was for the study of prokaryotes, SV40 was the first DNA tumor virus to be completely sequenced, that enabled the definition of the cis controlling elements in DNA replication and transcription. I am continuously fascinated by the organization of the SV40 and polyoma genomes. Although they contain about 5000 bp that encode for only 6 to 7 proteins, the mechanisms which regulated their gene expression are varied and include almost any other type of gene regulation found today to regulate eukaryotic genes. Just to mention two: i) the early promoter is a classical promoter that contains the TATA, CAAT, and enhancer elements, while the late promoter is devoid of these elements; and ii) the mRNA can be structurally and functionally monocistronic or dicistronic. This hints at the versatility in the control of gene expression at the transcriptional and translational levels.

Clinical Aspects of Interferons Michel Revel, 2012-12-06 Maedi-Visna and Related Diseases G. Pétursson, R. Hoff-Jørgensen, 2012-12-06 G. Pétursson and Rikke Hoff-Jørgensen The concept of slow viral infections was first put forward in 1954 by Dr Bjorn Sigurdsson, an Icelandic physician who had been studying some sheep diseases which were introduced into Iceland with the importation of a foreign breed of sheep in 1933. Sigurdsson's main criteria for defining slow infections were a very long initial period without clinical signs lasting months or even years following infection and a rather regular protracted progressive course once clinical symptoms had appeared, usually ending in serious disease or death. Sigurdsson included in this list of slow infections: maedi-visna, infectious adenomatosis of sheep, scrapie in sheep, Bittner's mammary carcinoma, and Gross leukemia in mice. All of these diseases except scrapie are caused by retroviruses. The characteristics of slow infections as described above are of practical importance for epidemiology, diagnosis, and control of these diseases. For many years the slow infections remained primarily a veterinary problem, mainly affecting sheep and goats in certain countries. In recent years, however, the human immunodeficiency virus (HIV) causing acquired immunodeficiency syndrome (AIDS) has suddenly appeared in many countries of the world and brought the slow infection concept forcefully to the attention of the medical profession. The disease problems and the economic effects of slow infections of sheep and goats are increasingly recognized in various countries. For the reasons stated above, we feel that this book should be useful for veterinarians and physicians alike.

Herpesvirus Diseases of Cattle, Horses, and Pigs G. Wittmann, 2012-12-06 *Herpesviruses, the Immune System, and AIDS* Yechiel Becker, 2012-12-06 **Newcastle Disease** D. J. Alexander, 2012-12-06 Most of the

chapters of this book were written during 1987 which was the Diamond Jubilee year of the publication of the first reports of Newcastle disease in 1927 During the intervening years the nature of the Poultry Industry throughout the World has changed or is in the process of changing dramatically from one based on small village or farm flocks frequently kept as a sideline to an industry based on large flocks sometimes consisting of hundreds of thousands of birds run by multinational companies To all these flocks both large and small Newcastle disease poses a considerable threat to their well being and profitability and it is not unreasonable to state that hardly a single commercial flock of poultry is raised in the world without Newcastle disease having some effect due to actual disease prophylactic vaccination or restrictions placed on rearing movement processing sale or export of birds and products In addition recent years have produced developments in virology and associated biological technology which would have been unbelievable when Newcastle disease virus was first isolated The economic importance of Newcastle disease virus and its use as a laboratory model has meant that major advances have been quickly applied to the field situation whenever possible and as a result a much fuller understanding not only of the biochemistry and basic virology of the virus but also the ecology epizootiology antigenicity immunology and other important aspects in the control of the disease has been achieved

Current Catalog National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 **National Library of Medicine Current Catalog** National Library of Medicine (U.S.),1989 Analysis of the Early Transcriptional Regulatory Region of the Human Papovavirus, BK, Strain PQ Anne T. Ferguson,1993 **Rabies**

J.B. Campbell,K.M. Charlton,2012-12-06 Rabies is an ancient disease and a fearsome one Although it may not have the economic or public health importance of some other infectious diseases few are so well known or carry the same emotional impact Mainly transmitted by the bite of an enraged animal and with practically no hope for recovery among those afflicted it has provided the substance of stories and legends throughout the ages The pioneering work of many 19th century workers culminating in the development of the first rabies vaccines by Louis Pasteur provided the ground work for the modern era in the study of rabies Since then and particularly in the last quarter century considerable advances have been made in our knowledge of the nature of the infectious agent its mode of transmission and pathogenetic mechanisms Yet even today much remains to be learned about the disease For example although effective vaccines exist for humans and other animals there is still no known practical cure once the neurological disease symptoms develop Markers of virulence have been mapped at the molecular level but it is yet unclear as to how rabies virus actually exerts its pathological effects Immunology of Human Infection André J. Nahmias,Richard J. O'Reilly,2012-12-06 When we were first approached by the senior editors of this series to edit a book on interactions between the host and infectious agents we accepted this offer as an exciting challenge The only condition readily agreed upon was that such a book should focus on the immunology of infections in humans Our reasons if not biases were severalfold We sensed that the fields of microbiology and immunology which had diverged as each was focusing on its individual search were coming together In agreement with the opinions expressed by Dr Richard Krause in

the Introduction we strongly believed that the development of the immune system evolved in response to infectious agents and that the evolution of these agents was influenced in turn by the character of the host's responses. An intensive examination of the multitude of primitive or more recently developed host defense mechanisms to determine their relative contribution to man's resistance to a given infectious agent appeared to us to be of crucial basic and practical interest. Many immune mechanisms studied in animals were being explored in humans and it appeared timely to focus particularly on what was known about man's resistance to infectious agents correlating this information with lessons learned from relevant experiments in animal models.

Biomedical Index to PHS-supported Research: pt. A. Subject access A-H, 1992 **Viral Tumorigenesis Report**, **Current Catalog**, 1989 First multi year cumulation covers six years 1965-70 **Biomedical Index to PHS-supported Research**, 1987 **The Cumulative Book Index**, 1989 A world list of books in the English language Analysis of the Early Transcriptional Regulatory Region and Origin of DNA Replication of the Human Papovavirus BKV Karen Lane Deyerle, 1988 *Research Awards Index*, 1984 *Subject Index of Extramural Research Administered by the National Cancer Institute*, 1978 Current information about research grants and contracts supported by the National Cancer Institute. Subject listing gives contract or grant number and topic. Investigator grant number and contract number indexes Subject Index of Current Extramural Research Administered by the National Cancer Institute, 1978

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