



Regulation of Gene Expression in Animal Viruses

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Regulation Of Gene Expression In Animal Viruses

A. J. Shatkin



Regulation Of Gene Expression In Animal Viruses:

Regulation of Gene Expression in Animal Viruses Luis Carrasco, Nahum Sonenberg, Eckard Wimmer, 2012-12-06

Viruses being obligatory parasites of their host cells rely on a vast supply of cellular components for their replication regardless of whether infection leads to cell death or to the state of persistence. Animal viruses are providing scientists with relatively simple models to study the molecular biology of genome replication and gene expression. Whereas viruses use in general pathways of macromolecular biosynthesis common to the host cell, they have a cunning ability to adopt unusual mechanisms of gene expression and gene replication provided these special pathways offer an advantage in competition for cellular resources. Any study of viral gene expression and replication is likely to lead also to new insights in cellular metabolism. The discoveries of cis acting regulatory elements in transcription, the phenomenon of splicing of pre mRNA and cap dependent and cap independent initiation of translation may be cited as examples. In addition, animal virus genomes contain elements and encode proteins that are very useful for the design of vectors for gene cloning and expression in mammalian cells. Apart from the basic interest in their biology, viruses have gained notoriety of course because they are pathogens. Human animal viruses may cause diseases ranging from the deadly AIDS to the benign common cold. All studies on animal viruses potentially lead to the development of tools for their control, be it through prevention by immunization or treatment with antiviral drugs. Finally, viruses have yielded invaluable reagents in molecular biology, as for example the vaccinia virus vector for the expression of foreign genes.

Regulation and Genetics H. Fraenkel-Conrat, 2012-12-06

The time seems ripe for a critical compendium of that segment of the biological universe we call viruses. Virology as a science having passed only recently through its descriptive phase of naming and numbering has probably reached that stage at which relatively few new truly new viruses will be discovered. Triggered by the intellectual probes and techniques of molecular biology, genetics, biochemical cytology and high resolution microscopy and spectroscopy, the field has experienced a genuine information explosion. Few serious attempts have been made to chronicle these events. This comprehensive series which will comprise some 6000 pages in a total of about 22 volumes represents a commitment by a large group of active investigators to analyze, digest and expostulate on the great mass of data relating to viruses, much of which is now amorphous and disjointed and scattered throughout a wide literature. In this way we hope to place the entire field in perspective and to develop an invaluable reference and sourcebook for researchers and students at all levels. This series is designed as a continuum that can be entered anywhere but which also provides a logical progression of developing facts and integrated concepts.

Initiation Signals in Viral Gene Expression A. J. Shatkin, 2012-12-06

Elucidating Mechanisms of Eukaryotic Genetic Expression by Studying Animal Viruses

AARON 1 SHATIGN

Eukaryotic genetic expression is carefully regulated. Normal cell growth and division, tissue differentiation and organism development all depend on a strictly ordered progression of specific events. Perturbation of the control of these processes, for example by exposure to harmful chemicals or infection with viruses,

leads to aberrant forms of metabolism often resulting in malignancies and cell death One of the most challenging problems in biology is to determine at the molecular level the mechanisms that govern gene function in higher organisms including ultimately man This goal serves to unify the diverse efforts of many investigators whether studying the precise patterns of embryo genesis the loss of control that occurs during neoplastic growth or the redirection of biosynthetic pathways in virus infected cells Recently there has been remarkable and exciting progress toward understanding the molecular biology of eukaryotic expression Much of this rapidly increasing new information has come from studies of animal virus systems Just as investigations of the relatively simple rapidly assayed and easily manipulated bacteriophages lead to basic discoveries about prokaryotic cells analyses of animal viruses and their interactions with host cells have provided fundamental information about how eukaryotic nucleic acids are organized for regulated replication transcription and translation For example the small genome of SV like cellular DNA in chromatin is associated with histones to form nucleosomal arrays Griffin 1975

Biomedical Index to PHS-supported Research: pt. A. Subject access A-H, 1992 Life William K. Purves, 2004 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR **Research Awards Index**, 1989 **Biomedical Index to PHS-supported Research**, 1993 **Subject Index of Current Extramural Research Administered by the National Cancer Institute**, 1978 Research Grants Index National Institutes of Health (U.S.). Division of Research Grants, 1975 **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 New Directions for Biosciences Research in Agriculture National Research Council, Board on Agriculture, Research in Agriculture, Committee on Biosciences, 1985-01-01 Authored by an integrated committee of plant and animal scientists this review of newer molecular genetic techniques and traditional research methods is presented as a compilation of high reward opportunities for agricultural research Directed to the Agricultural Research Service and the agricultural research community at large the volume discusses biosciences research in genetic engineering animal science plant science and plant diseases and insect pests An optimal climate for productive research is discussed **Upstream Industrial Biotechnology, 2 Volume Set** Michael C. Flickinger, 2013-07-22 Biotechnology represents a major area of research focus and many universities are developing academic programs in the field This guide to biomanufacturing contains carefully selected

articles from Wiley's Encyclopedia of Industrial Biotechnology Bioprocess Bioseparation and Cell Technology as well as new articles 80 in all and features the same breadth and quality of coverage and clarity of presentation found in the original For instructors advanced students and those involved in regulatory compliance this two volume desk reference offers an accessible and comprehensive resource

Cumulated Index Medicus, 1982 *Subject Index of Current Extramural Research Administered by the National Cancer Institute* National Cancer Institute (U.S.), 1974 Regulation and Genetics

H. Fraenkel-Conrat, 1977-03-01 The time seems ripe for a critical compendium of that segment of the biological universe we call viruses Virology as a science having passed only recently through its descriptive phase of naming and numbering has probably reached that stage at which relatively few new truly new viruses will be discovered Triggered by the intellectual probes and techniques of molecular biology genetics biochemical cytology and high resolution microscopy and spectroscopy the field has experienced a genuine information explosion Few serious attempts have been made to chronicle these events This comprehensive series which will comprise some 6000 pages in a total of about 22 volumes represents a commitment by a large group of active investigators to analyze digest and expostulate on the great mass of data relating to viruses much of which is now amorphous and disjointed and scattered throughout a wide literature In this way we hope to place the entire field in perspective and to develop an invaluable reference and sourcebook for researchers and students at all levels This series is designed as a continuum that can be entered anywhere but which also provides a logical progression of developing facts and integrated concepts

Cloning Stephen D. Fairbanks, 2004 The terms recombinant DNA technology DNA cloning molecular cloning or gene cloning all refer to the same process the transfer of a DNA fragment of interest from one organism to a self replicating genetic element such as a bacterial plasmid The DNA of interest can then be propagated in a foreign host cell This technology has been around since the 1970s and it has become a common practice in molecular biology labs today Reproductive cloning is a technology used to generate an animal that has the same nuclear DNA as another currently or previously existing animal Dolly was created by reproductive cloning technology In a process called somatic cell nuclear transfer SCNT scientists transfer genetic material from the nucleus of a donor adult cell to an egg whose nucleus and thus its genetic material has been removed The reconstructed egg containing the DNA from a donor cell must be treated with chemicals or electric current in order to stimulate cell division Once the cloned embryo reaches a suitable stage it is transferred to the uterus of a female host where it continues to develop until birth Therapeutic cloning also called embryo cloning is the production of human embryos for use in research The goal of this process is not to create cloned human beings but rather to harvest stem cells that can be used to study human development and to treat disease Stem cells are important to biomedical researchers because they can be used to generate virtually any type of specialised cell in the human body This new book presents an up to date Chronology of Cloning along with current and selected abstracts dealing with cloning as well as a guide to books on the topic Access to the abstract and books sections is provided by title subject and author indexes

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