

Springer Series in
Molecular Biology



Protein Compartmentalization

Edited by

Arnold W. Strauss

Irving Boime

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Protein Compartmentalization Springer Series In Molecular Biology

Akira Wake, Herbert R. Morgan



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Protein Compartmentalization Arnold W. Strauss, 1986-01-01

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Strauss, Irving Boime, Günther Kreil, 2011-12-06 During the past few decades we have witnessed an era of remarkable growth in the field of molecular biology In 1950 very little was known of the chemical constitution of biological systems the manner in which information was transmitted from one organism to another or the extent to which the chemical basis of life is unified The picture today is dramatically different We have an almost bewildering variety of information detailing many different aspects of life at the molecular level These great advances have brought with them some breath taking insights into the molecular mechanisms used by nature for replicating distributing and modifying biological information We have learned a great deal about the chemical and physical nature of the macromolecular nucleic acids and proteins and the manner in which carbohydrates lipids and smaller molecules work together to provide the molecular setting of living systems It might be said that these few decades have replaced a near vacuum of information with a very large surplus It is in the context of this flood of information that this series of monographs on molecular biology has been organized The idea is to bring together in one place between the covers of one book a concise assessment of the state of the subject in a well defined field **National**

Library of Medicine Current Catalog National Library of Medicine (U.S.), *Current Catalog* National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 Chromatin Kensal E. van Holde, 2012-12-06

Contemporary views on the structure and function of chromatin are presented and the history of the development of these ideas as well as the nature of the nucleic acid and protein components of chromatin are reviewed The structure of chromatin is studied at several levels and its modes of transcription and replication are analyzed Chromatin provides researchers with a critical evaluation of current knowledge It combines much information that has never before been assembled and evaluates and interrelates it in a critical way This has not been done before so that readers are not only provided with an overview but with extensive references to the literature there are about 2000 references in all Fibronectins Richard O.

Hynes, 2012-12-06 Fibronectins comprise a class of high molecular weight glycoproteins present both in extracellular matrices and in soluble form in body fluids Although they have been studied for about forty years their real significance emerged only during the past decade Intensive research has focused on their role in platelet function cell migration the cytoskeleton reticuloendothelial function and on alterations in fibronectin distribution during development and disease Fibronectins have emerged as glycoproteins with a very interesting set of properties generally involving adhesion of cells to cells or to extracellular material In more recent years the complete sequences of several fibronectin molecules and their genes were determined the relation between structure and function was understood and much has been learned about cell surface receptors for fibronectins and other adhesive ligands Having been at the forefront of all these exciting developments the author has synthesized the entire field and with all the latest information at hand for the first time given it a clear

perspective **Linear Aggregation Theory in Cell Biology** Terrell L. Hill, 2012-12-06 During the past few decades we have witnessed an era of remarkable growth in the field of molecular biology In 1950 very little was known of the chemical constitution of biological systems the manner in which information was transmitted from one organism to another or the extent to which the chemical basis of life is unified The picture today is dramatically different We have an almost bewildering variety of information detailing many different aspects of life at the molecular level These great advances have brought with them some breathtaking insights into the molecular mechanisms used by nature for replicating distributing and modifying biological information We have learned a great deal about the chemical and physical nature of the macromolecular nucleic acids and proteins and the manner in which carbohydrates lipids and smaller molecules work together to provide the molecular setting of living systems It might be said that these few decades have replaced a near vacuum of information with a very large surplus It is in the context of this flood of information that this series of monographs on molecular biology has been organized The idea is to bring together in one place between the covers of one book a concise assessment of the state of the subject in a well defined field This will enable the reader to get a sense of historical perspective what is known about the field today and a description of the frontiers of research where our knowledge is increasing steadily **Cytochromes c** Geoffrey R. Moore, Graham W. Pettigrew, 2012-12-06 Cytochromes c are haemoproteins which carry out electron transfer in a wide variety of biological systems necessitating different kinds of cytochrome c to fulfill different biological roles The evolutionary relationship between cytochromes c and their host organisms are described as well as their structural spectroscopic and redox properties including both electron transfer rates and redox potentials The treatment is aimed at the non specialist so that both the techniques described and their application to cytochromes c can be understood All classes of cytochrome c are dealt with to provide a comprehensive account of the field No other text provides such a broad survey Similar to the earlier volume *Cytochromes c Biological Aspects* which deals with the classification biosynthesis and biological role of cytochromes c the present book is aimed at research workers and advanced students **Cytochromes c** Graham W. Pettigrew, Geoffrey R. Moore, 2012-12-06 Cytochrome c fulfills a central role in biological electron transport This book draws together information from diverse disciplines in order to provide a common base for further research The comprehensive treatment of this subject does not neglect to show the diversity of biological respirations and photosyntheses But it also defines their unifying principles This overview presents the evolutionary relatedness in bioenergetic systems Such systems are discussed at the experimental level with emphasis on the interpretation of results and the methodological approaches used No other text provides a broad survey of this central area of biology Researchers on cytochrome c are presented with information on the impact and importance of other disciplines on their area of investigation Advanced students gain a balanced account of biological electron transport and will be encouraged to seek new directions of research

Host-Parasite Relationships and the Yersinia Model Akira Wake, Herbert R. Morgan, 2012-12-06 During the past few

decades we have witnessed an era of remarkable growth in the field of molecular biology In 1950 very little was known of the chemical constitution of biological systems the manner in which information was transmitted from one organism to another or the extent to which the chemical basis of life is unified The picture today is dramatically different We have an almost bewildering variety of information detailing many different aspects of life at the molecular level These great advances have brought with them some breath taking insights into the molecular mechanisms used by nature for replicating distributing and modifying biological information We have learned a great deal about the chemical and physical nature of the macromolecular nucleic acids and proteins and the manner in which carbohydrates lipids and smaller molecules work together to provide the molecular setting of living systems It might be said that these few decades have replaced a near vacuum of information with a very large surplus It is in the context of this flood of information that this series of monographs on molecular biology has been organized The idea is to bring together in one place between the covers of one book a concise assessment of the state of the subject in a well defined field This will enable the reader to get a sense of historical perspective what is known about the field today and a description of the frontiers of research where our knowledge is increasing steadily

Structure, Function, and Genetics of Ribosomes Boyd Hardesty, Gisela Kramer, 2012-12-06 During the past few decades we have witnessed an era of remarkable growth in the field of molecular biology In 1950 very little was known of the chemical constitution of biological systems the manner in which information was transmitted from one organism to another or the extent to which the chemical basis of life is unified The picture today is dramatically different We have an almost bewildering variety of information detailing many different aspects of life at the molecular level These great advances have brought with them some breath taking insights into the molecular mechanisms used by nature for replicating distributing and modifying biological information We have learned a great deal about the chemical and physical nature of the macromolecular nucleic acids and proteins and the manner in which carbohydrates lipids and smaller molecules work together to provide the molecular setting of living systems It might be said that these few decades have replaced a near vacuum of information with a very large surplus It is in the context of this flood of information that this series of monographs on molecular biology has been organized The idea is to bring together in one place between the covers of one book a concise assessment of the state of the subject in a well defined field

International Books in Print, 1995 Barbara Hopkinson, [Anonymus AC01401231], 1995

Books in Series, 1985 Vols for 1980 issued in three parts Series Authors and Titles

Books in Series, 1876-1949 R.R. Bowker Company, 1982

Peptides of Poisonous Amanita Mushrooms Theodor Wieland, 2012-12-06 During the past few decades we have witnessed an era of remarkable growth in the field of molecular biology In 1950 very little was known of the chemical constitution of biological systems the manner in which information was transmitted from one organism to another or the extent to which the chemical basis of life is unified The picture today is dramatically different We have an almost bewildering variety of information detailing many different aspects

of life at the molecular level. These great advances have brought with them some breath-taking insights into the molecular mechanisms used by nature for replicating, distributing and modifying biological information. We have learned a great deal about the chemical and physical nature of the macromolecular nucleic acids and proteins and the manner in which carbohydrates, lipids and smaller molecules work together to provide the molecular setting of living systems. It might be said that these few decades have replaced a near vacuum of information with a very large surplus. It is in the context of this flood of information that this series of monographs on molecular biology has been organized. The idea is to bring together in one place, between the covers of one book, a concise assessment of the state of the subject in a well-defined field. This will enable the reader to get a sense of historical perspective, what is known about the field today and a description of the frontiers of research where our knowledge is increasing steadily.

Medical and Health Care Books and Serials in Print, 1986

The Cumulative Book Index, 1988. A world list of books in the English language. *Scientific and Technical Books and Serials in Print*, 1989.

Electron Microscopy Of Subcellular Dynamics Helmut Plattner, 1989-09-30. This illustrated volume surveys the correlated use of currently available methods of electron microscopic techniques along with the goals and perspectives for future developments. The authors discuss an integrative approach of different EM preparation and analysis techniques that can allow for an analysis of dynamic cellular processes with high temporal and spatial resolution on the electron microscope level. This concise yet thorough work is a valuable reference for researchers in the field.

Enzymology

and Molecular Biology of Carbonyl Metabolism 2 Henry Weiner, T. Geoffrey Flynn, 1989

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