

reasonably approximated by quadratic form, are accounted for rather well by the theory associated with the names of Kirkwood, Rouse, Bueche, and Zimm, and this theory is lucidly reviewed by Yamakawa. The incorporation of more realistic potentials has led to a variety of approaches, such as the use of rigid arrays of segments, modification of dimensional averages required in the theory, or modification of the force constants in the quadratic form. The difficulties, shortcomings, and successes are more or less briefly explained.

The industrial and biological significance of macromolecules, and perhaps even more importantly the variety of problems, and their suitability to statistical mechanical and experimental investigation, have generated an explosion of interest in macromolecular theory. The experienced theorist who cares to know what has been accomplished in dilute-solution theory, or of methods and models that find much wider applicability, and the student with a good introduction to statistical mechanics behind him will find Yamakawa's book an invaluable guide. There is nothing else remotely like it.

MARSHALL FIDMAN

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## Spermine, Spermidine, Etc.

**Introduction to the Polyamines.** SEYMOUR S. COHEN. Prentice-Hall, Englewood Cliffs, N.J., 1971. xii, 180 pp., illus. \$7.95.

Until a few years ago studying the biochemistry and physiology of the naturally occurring polyamines putrescine, spermidine, and spermine was almost exclusively the province of a small number of research groups whose prime interest was in these polyamines. Recently a change has occurred so that a number of workers who have been interested primarily in the control of RNA synthesis, the effects of hormones on nucleic acid synthesis, and processes associated with the cell cycle are now either interested in or working on polyamine biochemistry.

A number of factors account for this change in status of polyamine biochemistry; among the most important are (i) the establishment of a correlation between polyamine metabolism and RNA metabolism in a wide variety of procary-

otic and eucaryotic cells, (ii) the demonstration that ornithine decarboxylase activity correlates well with the growth rate of many tissues, that its turnover in regenerating liver is remarkably fast, and that its activity in many tissues is increased by the administration of appropriate hormones, (iii) the development of rapid electrophoretic and thin layer chromatographic methods for the sensitive assay of polyamines, and (iv) the isolation of mutants of *Escherichia coli* defective in certain of the enzymes necessary for polyamine biosynthesis.

It is thus timely that Seymour Cohen should write the first book devoted exclusively to naturally occurring polyamines. It is the most extensive review of polyamines since that of Hugh and Celia Tabor in 1964 (*Pharmacol. Rev.* 16, 245). The book comprises four chapters, the first of which opens with an interesting account of the history of polyamines since 1674 including snippets of the biographies of the men involved. The second and third chapters are devoted to polyamines in eucaryotic and procaryotic cells, respectively, and the final chapter is entitled "Organic cations in the structure and function of nucleic acids."

From reading the book it becomes very clear that there is now an abundance of evidence showing a correlation between polyamines and RNA synthesis, but also that we know very little about the nature of this correlation. Cohen presents a number of novel and speculative suggestions as to how polyamines might act. He also analyzes why many molecular biologists shrug their shoulders after posing the question, "Won't magnesium ions do the job equally well?"

The book, which is based on four lectures which Cohen gave to the Collège de France in 1970, could be better organized. The development of the themes is sometimes illogical and the subheadings are often uninformative and bear little relation to one another. For example, the biosynthesis of spermidine is dealt with under three separate headings in three separate chapters; it could surely be dealt with more logically in a single section. The book has a good index and bibliography and in spite of shortcomings should prove stimulating reading for potential workers in the field and a useful reference work for those already in the field.

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## Viral Oncology

**Growth Control in Cell Cultures.** A Ciba Foundation symposium, Oct. 1970. G. E. W. WOOLSTENHOLME and JULIE KNIGHT, Eds. Churchill Livingstone, Edinburgh, 1971 (U.S. distributor, Williams and Wilkins, Baltimore). x, 276 pp. + plates. \$11.75.

This symposium is concerned with the mechanism of growth restriction in crowded cell cultures. The discovery that oncogenic viral transformation relieves this restriction has stimulated renewed interest in the problem. Some investigators have assumed that this density-dependent inhibition of growth is the consequence of cell-to-cell contact, whereas others have argued that it is due to decreased accessibility to serum growth factors. Papers presented at the symposium support both points of view. Indeed, as evidenced by the spirited discussion following each paper, there was little agreement on the relation between the respective roles of plasma membrane and components of the culture medium. This difficulty is easy to understand in view of the multiplicity of growth factors, inhibitors, and surface phenomena studied. It is certainly compounded by the fact that different cell systems and a variety of assay techniques have been employed.

Among the more promising approaches to the problem of the relation between cell surface structure and growth control is that of Max Burger and associates. Burger found a difference in the molecular surface structure of normal cells and their counterparts after transformation by oncogenic viruses. This difference is expressed in the exposure of wheat germ agglutinin receptor sites in the transformed cells. These sites are present in masked form in normal cells, where they can be demonstrated transiently after brief treatment with a proteolytic enzyme and during normal mitosis. A correlation between the degree of exposure of agglutinin sites and loss of density-dependent inhibition of growth was also found.

The use of genetic methods to analyze the relationship between topoinhibition (contact inhibition of growth), surface changes, and stimulation of cellular DNA synthesis was a lively topic of discussion. The results of studies with temperature-sensitive mutants of polyoma virus were interpreted by Dulbecco to show that low topoinhibition and high wheat-germ agglutinating ac-

# Growth Control In Cell Cultures A Ciba Foundation Symposium

**Malcolm S. Steinberg**



## **Growth Control In Cell Cultures A Ciba Foundation Symposium:**

**Growth Control in Cell Cultures** G. E. W. Wolstenholme, Julie Knight, 2009-09-16 The Novartis Foundation Series is a popular collection of the proceedings from Novartis Foundation Symposia in which groups of leading scientists from a range of topics across biology chemistry and medicine assembled to present papers and discuss results The Novartis Foundation originally known as the Ciba Foundation is well known to scientists and clinicians around the world Growth control in cell cultures: a Ciba Foundation symposium, ed Ciba Foundation, Gordon Ethelbert Ward Wolstenholme, Julie Knight, Growth Control in Cell Cultures: a Ciba Foundation Symposium, Held 14th-16th October, 1970 london Symposium on growth control in cell cultures (1970. w), 1971 *Growth Control in Cell Cultures*, 1971 **Current Catalog** National Library of Medicine (U.S.), 1982 First multi year cumulation covers six years 1965 70 *Growth Control in Cell Cultures* Ciba Foundation, 1971

Neoplastic and Normal Cells in Culture И[И]ри[И] Markovich Vasil'ev, Izrail' Moiseevich Gel'fand, 1981-02-19 Het doel van dit boek is de vergelijkende karakteristieken van de interacties van normale cellen en cellen met een ongeremde groei ten opzichte van hun omgeving in celcultures te bespreken Celcultuur wordt als de enige methode beschouwd waarbij het mogelijk is het gedrag van individuele cellen in een min of meer gecontroleerde omgeving te bestuderen *National Library of Medicine Current Catalog* National Library of Medicine (U.S.), **Advances in Cell Culture** Karl Maramorosch, Gordon H. Sato, 2014-12-01 *Advances in Cell Culture Volume 6* is a compilation of research papers in the field of cell culture The contributions reflect the applications of cell culture to biotechnology to the study of basic mechanisms of cellular behavior and to the study of pathogens and diseases This volume contains chapters that deal with the differentiation of human epidermal cells cell injury and regeneration in cell culture models the description of the testing of anticancer compounds in cultured cells and the interactions of cells and asbestos Other contributions cover the production in plant tissue culture of the potent antimalarial drug artemisinin plant cell suspensions used for studying the mode of action of plant growth retardants and the in vitro genetic manipulation of cereals and grasses Also included is a biographical sketch of Nobel Laureate Renato Dulbecco whose pioneering work on mammalian cell layers has had an enormous impact on cell culture and virology Cell biologists and researchers who use in vitro techniques will find the book highly informative and insightful

**Cell Culture and Its Application** Ronald Acton, 2012-12-02 *Cell Culture and Its Application* covers the proceedings of the First International Cell Culture Congress Symposium which focuses on how cell culture technology could impact on cell biology The symposium aims to establish facilities for the cultivation of mammalian cells which in turn would hopefully enhance basic cell biology research The book is organized into four symposium and workshop sessions encompassing 45 chapters The opening chapter recognizes the interlocking relationship of cell culture technology and substantive cell biology Chapters 2 5 describe the biochemical events that mark the cell cycle with emphasis on occurrence of histone phosphorylation at each cycle A discussion on cell differentiation as a phenomena of interacting inductive and

inhomogeneous cell populations is included in these chapters The second symposium session deals with signs of a revolution in progress in cell culture technology This includes impact of tissue culture in physiological research course and in understanding of integrated physiology The last two symposium sessions cover the large scale production of virus from tissue cultures for cell antigens An approach to the study of aging using diploid human cells in culture as a model system is also presented It involves isolation and characterization of HLA antigens from cultured cells and their contribution to the study of disease A brief discussion on mycoplasma contamination microplasma cell virus interaction and advantages and limitations of direct and indirect culture for primary isolation and detection of mycoplasma contamination is provided The book then proceeds by discussing cell differentiation of specific cell or organ such as testis sensory cell hepatocyte embryonic muscle cell and brain cortex The concluding chapters cover nutritional requirements for cell growth defined culture media for specific cell type issues and problems related to large scale cell production and quality control Cell biologists and researchers will find this book invaluable

The Cell Surface in Development and Cancer Malcolm S. Steinberg, 2013-06-29 This series was established to create comprehensive treatises on specific topics in developmental biology Such volumes serve a useful role in developmental biology since it is a very diverse field that receives contributions from a wide variety of disciplines This series is a meeting ground for the various practitioners of this science facilitating an integration of heterogeneous information on specific topics Each volume is intended to provide the conceptual basis for a comprehensive understanding of its topic as well as an analysis of the key experiments upon which that understanding is based The specialist in any aspect of developmental biology should understand the experimental background of the field and be able to place that body of information in context to ascertain where additional research would be fruitful At that point the creative process generates new experiments This series is intended to be a vital link in that ongoing process of learning and discovery

**Bacterial Membranes and the Respiratory Chain** N. S. Gelman, 2012-12-06 The most valuable service Dr Gelman and her colleagues have performed for the many investigators of bacterial membrane systems in producing their first excellent monograph on The Respiratory Apparatus of Bacteria in 1966 has been continued and expanded in the preparation of this volume The authors have brought together in a single volume much of the detail of investigations of bacterial membranes at the ultrastructural level and the chemical and biochemical organizational levels The approach in bringing together this rapidly increasing volume of discovery has been both comprehensive and systematic with a constant awareness of the importance of the molecular and functional properties and relationships existing in various bacterial membranes The monograph naturally reflects the authors interest and their own intimate involvement in the elucidation at the molecular level of the respiratory chains organized in the prokaryotic bacterial membrane system It is entirely appropriate that the chapter devoted to this topic should occupy a substantial proportion of this monograph Indeed had this volume been prepared at this very moment that proportion would have been even greater as the work in Scientific

Directory and Annual Bibliography National Institutes of Health (U.S.), Published Scientific Papers of the National Institutes of Health National Institutes of Health (U.S.),1972 Each issue lists papers published during the preceding year

*Cell Culture for Biochemists* R.L.P. Adams,1990-10-31 This 2nd revised edition equals the popular 1st edition in providing a clear and detailed overview of cell culture It presents information on characteristics of cultured cells culture vessels glassware preparation and sterilisation techniques subculturing primary cells cell culture media techniques contamination the cell cycle cell synchronisation use of radioactive isotopes in cell culture cell mutants and cell hybrids viruses and differentiation in cell cultures Reviews on the 1st edition the book provides an excellent insight into the way cell culture techniques can be employed in the analytical study of cellular biology Trends in Biochemical Sciences It is well written in a concise easy to read style which stimulates the interest of the reader Science Tools A useful handbook on principles and practice Immunology Today Proto-Oncogenes in Cell Development Gregory R. Bock,Joan Marsh,2008-04-30 Presented here are the most up to date research findings of leading international scientists in the field of aging The collected data explores the biological medical and chemical implications and the latest thinking on the role of proto oncogenes and their relationship to cell development and deterioration in amphibians the role of the eukaryotic cell cycle and the role of proto oncogenes in differentiation and development **Molecular Biology of the Cell** Bruce Alberts,Dennis Bray,John Howard Wilson (biochemist),Hunt,Julian Lewis,Martin Raff,Keith Roberts,James D. Watson,1989-01-01 New edition of a text in which six researchers from leading institutions discuss what is known and what is yet to be understood in the field of cell biology The material on molecular genetics has been revised and expanded so that it can be used as a stand alone text A new chapter covers pathogens infection and innate immunity Topics include introduction to the cell basic genetic mechanisms methods internal organization of the cell and cells in their social context The book contains color illustrations and charts and the included CD ROM contains dozens of video clips animations molecular structures and high resolution micrographs Annotation copyrighted by Book News Inc Portland OR Growth Control in Cell Cultures Ciba Foundation,1971

**Animal Cell Culture and Production of Biologicals** Ryuzo Sasaki,Kouji Ikura,2012-12-06 In the past two decades the importance of animal cell technology has increased enormously First useful proteins can be produced by cultured animal cells in which the desired product can be modified and organized so as to retain its biological function Second studies of cultured cells can provide information needed to understand molecular mechanisms that govern what happens in tissues organs and even entire organisms For this second purpose biochemists and molecular biologists may need a large number of such cells Third cultured cells can be used instead of tissues and organs clinically The Third Annual Meeting of the Japanese Association for Animal Cell Technology JAACT at which participants from abroad were warmly welcomed was held in Kyoto on December 11 13 1990 It was organized around the idea of providing a place for the review of much new data on such applications of cultured cells and for exchanges of the views of the participants about progress in the field This volume

divided into seven sections contains the proceedings of the meeting The first section reviews the molecular basis of the control of animal cell growth In the following sections physicochemical and biochemical factors for cell growth and production of biologicals cell culture systems including serum free culture new cell lines specific products and their characteristics and in vitro assays for toxic carcinogenic and pharmacological effects are taken up in their turn **Journal of the National Cancer Institute** ,1977

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