

Mammalian Cell Culture

The Use of Serum-Free
Hormone-Supplemented Media

Edited by
Jennie P. Mather

Mammalian Cell Culture The Use Of Serum Free Hormone Supplemented Media

B. Leclercq, C. C. Whitehead



Mammalian Cell Culture The Use Of Serum Free Hormone Supplemented Media:

Mammalian Cell Culture Jennie Mather,2012-12-06 The advantages of obtaining a completely defined environment for the growth of cells in vitro were recognized very early in the history of cell culture Lewis and Lewis 1911 Continued interest in the nutritional requirements of cells in vitro and in providing an optimal environment for cells led to the development of the complex nutrient mixtures available today in many media Waymouth 1972 Ham 1965 However serum remained an essential component of medium for the growth of most cell types in culture The question of what factor or factors in serum was essential for cell growth and survival remained unanswered for several decades Initially experiments were designed to purify the active component of serum for the growth of cells in culture These experiments identified fetuin Fisher et al 1958 and nonsuppressible insulinlike activity Temin et al 1972 as important components of serum However the complexity of serum and the very low levels of active components in serum hindered progress in identifying and isolating serum factors

Large-Scale Mammalian Cell Culture Technology Anthony S. Lubiniecki,2018-05-02 An interdisciplinary approach integrating biochemistry biology genetics and engineering for the effective production of protein pharmaceuticals The volume offers a biological perspective of large scale animal cell culture and examines diverse processing strategies process management regulator

Production of Biologicals from Animal Cells in Culture R. E. Spier,J. B. Griffiths,B. Meignier,2013-09-24 Production of Biologicals from Animal Cells in Culture reviews the state of the art in animal cell biotechnology with emphasis on the sequence of events that occur when generating a biological from animal cells in culture Methods that enable adjustment of nutrient feed streams into perfusion bioreactors so as to increase productivity are described A number of issues are also addressed such as the usefulness of the fingerprint method for cell characterization Comprised of 135 chapters this book begins with an overview of the problems and benefits of animal cell culture followed by a discussion on the isolation of immortal murine macrophage cell lines The reader is systematically introduced to the use of DNA fingerprinting to characterize cell banks immortalization of cells with oncogenes lipid metabolism of animal cells in culture and energetics of glutaminolysis Subsequent chapters explore serum free and protein free media the physiology of animal cells gene expression in animal cell systems and animal cell bioreactors The monitoring and assay of animal cell parameters are also considered along with downstream processing and regulatory issues This monograph will be of interest to students practitioners and investigators in the fields of microbiology and biotechnology

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 **Stem Cell Culture** Jennie P.

Mather,2011-09-02 The purpose of Stem Cell Culture is to provide a comprehensive resource for researchers in the fields of embryonic fetal and adult stem cell biology to find methods for the purification culture and differentiation of these cell types with the main emphasis on the maintenance of the stem cell phenotype in vitro This volume will be the first to broadly cover multiple types of stem cell culture from different ages organs and species Authors will focus on the practical do's and don'ts of isolating and culturing these cell types and feel free to use illustrative data or diagrams wherever this improves the comprehension of the reader This should allow the reader to compare and contrast techniques and make this a standard reference for those in the field or desiring to start stem cell culture Describes techniques in stem cell research Delineates critical steps and potential pitfalls for each method Covers specific procedures in dealing with Human Embryonic Stem Cells

Animal Cell Culture Techniques Martin Clynes,2012-12-06 Cell culture techniques allow a variety of molecular and cell biological questions to be addressed offering physiological conditions whilst avoiding the use of laboratory animals In addition to basic techniques a wide range of specialised practical protocols covering the following areas are included cell proliferation and death in vitro models for cell differentiation in vitro models for toxicology and pharmacology industrial application of animal cell culture genetic manipulation and analysis of human and animal cells in culture *Introduction to Cell and Tissue Culture* Jennie P. Mather, Penelope E. Roberts,2007-08-20 It is a pleasure to contribute the foreword to Introduction to Cell and Tissue Culture Theory and Techniques by Mather and Roberts Despite the occasional appearance of thoughtful works devoted to elementary or advanced cell culture methodology a place remains for a comprehensive and definitive volume that can be used to advantage by both the novice and the expert in the field In this book Mather and Roberts present the relevant methodology within a conceptual framework of cell biology genetics nutrition endocrinology and physiology that renders technical cell culture information in a comprehensive logical format This allows topics to be presented with an emphasis on troubleshooting problems from a basis of understanding the underlying theory The material is presented in a way that is adaptable to student use in formal courses it also should be functional when used on a daily basis by professional cell culturists in academia and industry The volume includes references to relevant Internet sites and other use

ful sources of information In addition to the fundamentals attention is also given to modern applications and approaches to cell culture derivation medium formulation culture scale up and biotechnology presented by scientists who are pioneers in these areas With this volume it should be possible to establish and maintain a cell culture laboratory devoted to any of the many disciplines to which cell culture methodology is applicable *Tissue Culture of Epithelial Cells* Mary Taub, 2013-06-29 Epithelial cells are present in many different tissues in the body and possess a diverse number of functional properties However all epithelial cells share some common characteristics The cells possess a morphological polarity an apical and basolateral surface and are interconnected by tight junctions The epithelial cells also possess the capacity to transport select solutes across the monolayer Transport systems localized on either the apical or basolateral surface are responsible for this vectorial transport Such characteristics of epithelial cells can be examined in the tissue culture situation This volume discusses the use of cell culture techniques to study these fundamental properties of epithelial cells Major questions concerning epithelia which may be examined in culture are addressed The approaches which are taken to answer these questions are described in detail with regards to kidney cell cultures Similar investigations may be done with epithelial cell cultures derived from other tissues following the kidney cell culture paradigm *Environmental Health Perspectives*, 1993

Alternative Testing Methodologies, 1998 *Animal Biotechnology* Ashish S. Verma, Anchal Singh, 2020-06-09 *Animal Biotechnology Models in Discovery and Translation* Second Edition provides a helpful guide to anyone seeking a thorough review of animal biotechnology and its application to human disease and welfare This updated edition covers vital fundamentals including animal cell cultures genome sequencing analysis epigenetics and animal models gene expression and ethics and safety concerns along with in depth examples of implications for human health and prospects for the future New chapters cover animal biotechnology as applied to various disease types and research areas including in vitro fertilization human embryonic stem cell research biosensors enteric diseases biopharming organ transplantation tuberculosis neurodegenerative disorders and more **Leanness in Domestic Birds** B. Leclercq, C. C. Whitehead, 2014-05-20 *Leanness in Domestic Birds Genetic Metabolic and Hormonal Aspects* is a proceeding of a symposium held in Tours France from 4 to 6 August 1987 Said symposium was concerned with genetic and metabolic factors associated with leanness of poultry and accounts of research in these areas The book is divided into six parts Part I covers studies that involve genetics in the selection of meat leanness Part II deals with the relationship of feed intake and metabolism to the leanness of poultry Part III discusses the lipid metabolism in birds and its related factors and effects Part IV talks about the use of hormones such as insulin thyroid hormones and corticosteroids in the control of fatness in birds Part V covers studies involving amino acid metabolism and its relation to leanness in poultry and Part VI talks about the applications of the studies in commercial use The text is recommended for zoologists agriculturists and poultry farmers who would like to know more about the different factors that affect the leanness of domestic birds and its implications **Current Catalog** National Library of Medicine

(U.S.),1985 First multi year cumulation covers six years 1965 70 **Animal Cell Culture Methods** ,1998-07-03 This volume provides complete and thorough coverage of the classical and state of the art methods used in cell culture It also includes basic principles used in the selection of cells for specific scientific study as well as analytical and procedural techniques Key Features Reviews basic principles of cell culture Gives options and techniques on how to look at cells

World Nutritional Determinants G. H. Bourne,1984-12-06 *Recombinant DNA Research* ,1995 *National Library of Medicine Current Catalog* National Library of Medicine (U.S.),1984 *Animal Sera, Animal Sera Derivatives and Substitutes Used in the Manufacture of Pharmaceuticals* Fred Brown,1999 This publication provides an up to the minute account of current practices and policies concerning the use of animal derived products in the manufacture of biopharmaceuticals For the first time different views and concerns of pharmaceutical industries academic experts suppliers of serum and other animal products and the relevant regulatory agencies are described in one single volume It mainly focuses on current perceptions of the risks posed by contamination of biopharmaceuticals with viruses or other infectious agents from animals and how these risks can be managed Issues covered include all aspects of the supply chain from animal management through sourcing collection and processing of animal products to the latest technology for the detection and inactivation of contaminating agents Approaches to the elimination of animal products from the manufacturing process are also examined This book succeeds in clarifying many of the technical and regulatory questions surrounding the use of animal products Professionals concerned with sourcing raw materials process development quality assurance and control and regulatory affairs will find it a valuable reference and a great help in dealing with the special challenges posed by these materials *Animal Cell Technology* Leda Castilho,Angela Moraes,Elisabeth Augusto,Mike Butler,2008-03-01 Animal Cell Technology from Biopharmaceuticals to Gene Therapy provides a comprehensive insight into biological and engineering concepts related to mammalian and insect cell technology as well as an overview of the applications of animal cell technology Part 1 of the book covers the Fundamentals upon which this technology is based and covers the science underpinning the technology Part 2 covers the Applications from the production of therapeutic proteins to gene therapy The authors of the chapters are internationally recognized in the field of animal cell culture research and have extensive experience in the areas covered in their respective chapters Cumulated Index Medicus ,1974

The Enigmatic Realm of **Mammalian Cell Culture The Use Of Serum Free Hormone Supplemented Media**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Mammalian Cell Culture The Use Of Serum Free Hormone Supplemented Media** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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