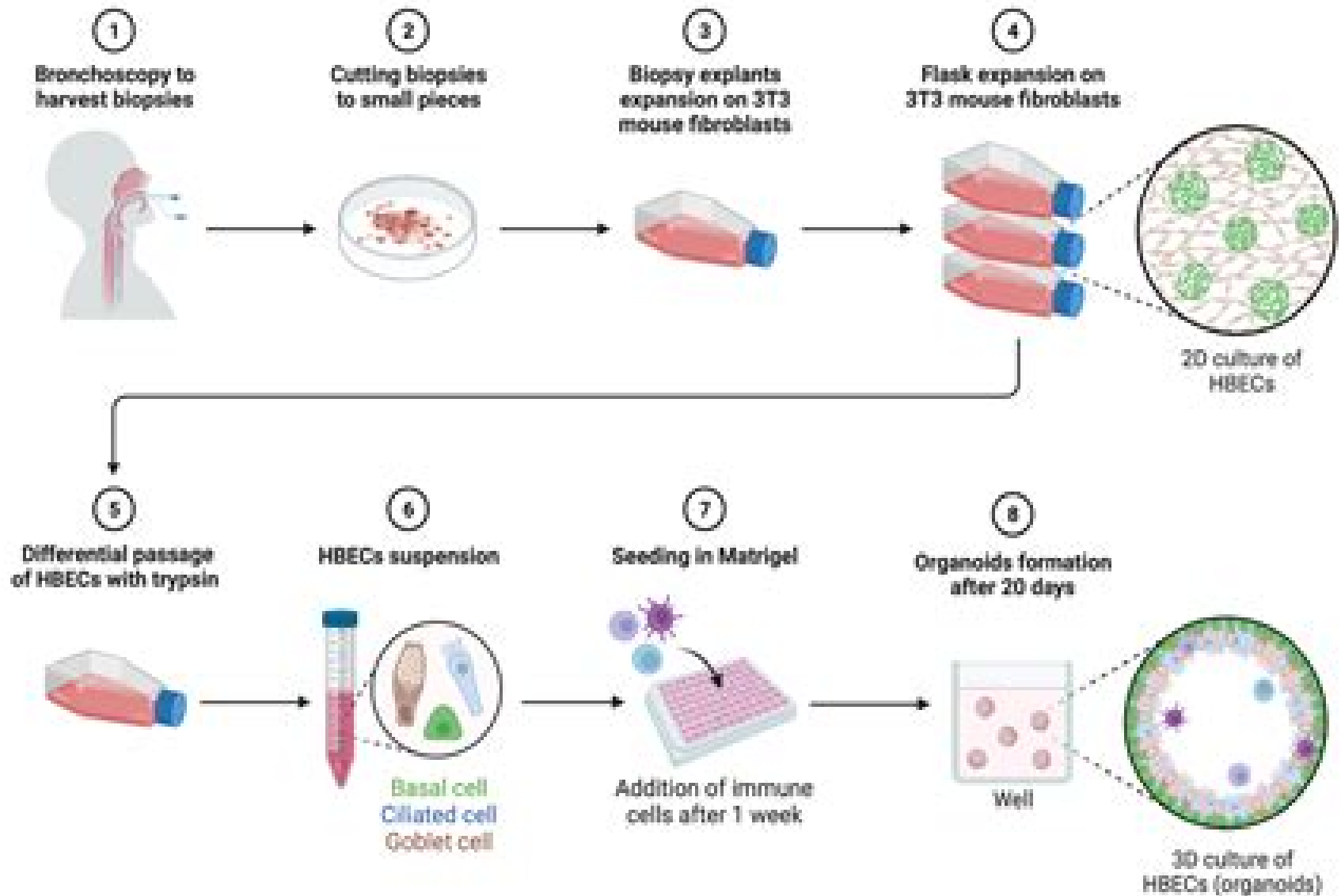


Culture of Primary Human Basal Epithelial Cells (HBECs) in 2D and 3D



Epithelial Cell Culture

Mary Taub



Epithelial Cell Culture:

Epithelial Cell Culture Protocols Clare Wise, 2008-02-05 There have been significant advances in research involving the isolation and culture of epithelial cells in the past decade and many new techniques have been developed Monolayer cultures can be used to evaluate the nature and behavior of cells while the use of epithelial cells in model systems has allowed a deeper understanding of cellular and molecular mechanisms and interactions The aim of this book is to provide a comprehensive step by step guide to many techniques for epithelial cell culture combining in one volume the more commonly used protocols along with many that are more specialized Epithelial Cell Culture Protocols should help those who are new to this field and want to learn the basic culture techniques as well as those needing to use more wide ranging and specific protocols It should be a useful resource on its own and also complement the other volumes that have been written about cell culture in the Methods in Molecular Biology series Epithelial Cell Culture Protocols covers a wide variety of protocols mostly aimed at the researcher but also a few aimed at clinicians The establishment and maintenance of primary cultures derived from many different tissues and different species is covered Particular emphasis has been placed on protocols needed to further analyze and assess epithelial cells for example by looking at apoptosis and integrins and by measuring membrane capacitance and confluence Using different coculture techniques it is possible also to develop models to investigate many different systems in vitro

Culture of Epithelial Cells R. Ian Freshney, Mary G. Freshney, 2004-03-24 a wonderful compendium of current in vitro approaches that will be a useful resource to those just starting to work with an epithelial cell system as well as those that have been working with them for years and years Pharmaceutical Research This completely revised and expanded new edition provides detailed descriptions of fundamental and practical aspects relating to the in vitro cultivation of disparate types of epithelia In recent years the use of epithelial cell culture in cell biology and tissue engineering has increased dramatically This revision reflects those advances by including new chapters on the culture of animal and human hepatocytes kidney epithelium and bladder epithelium Each chapter provides an introductory review of the principles and advantages of the particular method followed by detailed protocols practical tips alternate methods and a useful list of materials and suppliers

Epithelial Cell Culture Andrew J. Shaw, 1996 Cell culture has progressed to the point where cells can be grown into tissue like structures in vitro but these tissues often bear little resemblance to the same tissue in a living organism This book describes methods of culturing epithelial cells so as to mimic accurately their behaviour in vivo and the resulting model systems can be used in a wide range of research areas pharmaceuticals pharmacology toxicology and cell biology Written by an international panel of researchers the book details the methods used to reconstruct epithelia in vitro the procedures used to characterize these model systems and the research applications for which these cultures are becoming so important

Epithelial Cell Culture Ann Harris, 1996-11-13 This volume contains information and recipe style techniques for culturing different types of epithelial cells

Epithelial Cell Culture Mario Baratta, 2018 This detailed book

explores the most current techniques to study systems and epithelial cell culture Beginning with an overview the volume then continues to detail systems that seek to mimic the three dimensional organization epithelial cells from different organs gastrointestinal system thyroid salivary gland ovary mammary gland and olfactory epithelial tissue Cell culture is a fundamental technique in both medical research and drug discovery and two dimensional 2D culture has been the preferred method due to the ease with which cell monolayers can be induced to proliferate on planar surfaces The book propose several functional assay useful to test cell activities Further The past decades have witnessed significant efforts toward the development of three dimensional 3D cell cultures Today 3D cell cultures are emerging not only as a new tool in early drug discovery but also as potential therapeutics to treat disease Written for the highly successful Methods in Molecular Biology series chapters include the kind of detail and key implementation advice that leads to excellent results in the lab

Epithelia C.J. Jones,2012-12-06 Epithelial cells probably constitute the most diverse group of cells found in the body In addition to serving as interfaces between external and internal environments their functions include ion and fluid secretion and reabsorption protein exocytosis hormone secretion recognition surface protection and the control of ciliary movement By their very exposure on the surfaces of the body epithelial cells are subjected to wide ranging assault by micro organisms and by chemical and physical forces They are the targets for abrasion infection and malignant transformation Some epithelial cells show altered behaviour in inherited syndromes such as cystic fibrosis characterized by serious pancreatic and pulmonary disease In view of the importance of epithelia and the fact that their function can be altered by environmental and inherited factors they are the subject of intensive research particularly so in the case of cancer where most tumours are of epithelial origin The use of animal tissues in epithelial research continues to provide important advances and this coupled with the need to focus more on human tissues has prompted a greater research emphasis on accessible human epithelia and on the establishment of cell cultures from animal and human sources For primary cell cultures and cell lines to be of value they need to express properties appropriate to their progenitors and relevant to the study in progress

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 Epithelial

Cell Culture Mario Baratta, 2023-12-22 Back Cover Copy This second edition volume expands on the previous edition with in depth discussions on the rapid advancements in epithelial cell biology and the cutting edge research and techniques used by researchers in the field The chapters in this book cover topics such as detailed methodologies applicable to epithelial cells derived from primates pigs bovines and laboratory animals the manipulation and differentiation of epithelial cells and epithelial cell models in the gastroenteric system in human medicine and nutrition Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Comprehensive and cutting edge Epithelial Cell Culture Methods and Protocols Second Edition is a valuable resource for researchers in the scientific community educators and students who are interested in unraveling the complexities of epithelial cell biology cultivating curiosity and inspiring the next generation of groundbreaking research **Cell Culture**

Models of Biological Barriers Claus-Michael Lehr, 2002-08-08 Over the past ten years several sophisticated in vitro test systems based on epithelial cell cultures have been introduced in the field of drug delivery These models have been found to be very useful in characterizing the permeability of drugs across epithelial tissues and in studying formulations or carrier systems for improved drug delivery and *Epithelial Cell Culture Protocols. Methods in Molecular Biology* Clare Wise, 2002 Well versed experimenters and clinical researchers share their best methods for establishing and maintaining epithelial cell cultures for analyzing and studying their characteristics and for using them to set up models of critical biological systems The emphasis is on the analysis and assessment of epithelial cells for example by looking at apoptosis and integrins or by measuring membrane capacitance and confluence Also described in step by step detail are co culture techniques valuable in developing models for investigating many different in vitro systems including the blood brain barrier drug uptake and the interaction of epithelial cells with bacteria Epithelial Cell Culture Protocols offers a step by step guide toward a deeper understanding of cellular and molecular mechanisms as well as a set of robust techniques for specifically evaluating the nature and behavior of epithelial cells **Methods for Serum-free Culture of Epithelial and Fibroblastic Cells** David

William Barnes, David Andrew Sirbasku, Gordon Sato, 1984 Band 3 **Human Cell Culture Protocols** Joanna Picot, 2008-02-02 A thoroughly revised and updated collection readily reproducible techniques for culturing human cells This new edition includes a wide range of human cell types relevant to human disease and new chapters on fibroblasts Schwann cells gastric and colonic epithelial cells and parathyroid cells The protocols follow the successful Methods in Molecular Medicine™ series format each offering step by step laboratory instructions an introduction outlining the principle behind the technique lists of the necessary equipment and reagents and tips on troubleshooting and avoiding known pitfalls

Normal Human Tissue and Cell Culture, Part A, 1980-09-15 Normal Human Tissue and Cell Culture Part A Basic Cell Culture Protocols Jeffrey W. Pollard, John M. Walker, 1997 Now completely revised and updated from the original much

acclaimed and bestselling first edition Basic Cell Culture Protocols 2nd ed offers today s most comprehensive collection of easy to follow cutting edge protocols for the culture of a wide range of animal cells Its authoritative contributors provide explicit step by step instructions along with extensive notes and tips that allow both experts and beginners to successfully achieve their desired results Topics range from basic culture methodology to strategies for culturing previously uncultured cell types and hard to culture differentiated cells Methods are also provided for the analysis of living cells by FACS video microscopy and confocal microscopy Like the first edition this book should be in every cell culture laboratory and be of use to all who use cell cultures in research *Cell Culture Methods for In Vitro Toxicology* G. Stacey, Alan Doyle, Margherita

Ferro, 2013-06-29 Cell Culture Methods for in vitro Toxicology introduces the reader to a range of techniques involved in the use of in vitro cell culture in toxicological studies It deals with major cell types studied in the field of toxicology and will be useful for anyone wishing to start work with animal cell cultures or to refresh their knowledge relating to in vitro cell models Fundamental chapters deal with the general biology of cytotoxicity and cell immortalisation these are key issues for in vitro systems addressing the 3Rs principle Up to date overviews deal with the use of cells from liver brain and intestine In addition biochemical analysis of cell responses biotransformation pathways in cells and recombinant approaches to the early detection of cell stress are also covered in detail Prominent features of in vitro technologies also include regulation biosafety and standardisation Dedicated chapters deal with these issues in a practical way in order to lead the reader to the right source of information This book provides an up to date informative and practical review of cell culture methods for in vitro toxicology It will be of equal benefit to students and experienced toxicologists with little experience of in vitro cell culture **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 t s 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 Cancer Cell Culture Dania Movia,Adriele Prina-Mello,2023-05-18 This volume explores the latest collection of cell models that are used in preclinical cancer research and covers both two dimensional and three dimensional culturing techniques The chapters in this book are divided into two parts Part One discusses two dimensional cancer cell culture cell models at the Air Liquid Interface and the latest advancements in three dimensional complex spheroid models and dedicated disease animal models Part Two contains technical chapters that illustrate step by step methodologies for specific cancer cell culture methods The methods discussed range from the generation of isogenic cancer cell lines the use of serum free growth conditions and three dimensional cell cultures and their specific assays for the efficacy assessment of new anticancer therapies Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Cutting edge and comprehensive Cancer Cell Culture Methods and Protocols is a valuable tool to help researchers involved in this important field to further improve or advance their models for cancer research **Cell Culture** ,1988-06-28 The critically acclaimed laboratory standard Methods in Enzymology is one of the most highly respected publications in the field of biochemistry Since 1955 each volume has been eagerly awaited frequently consulted and praised by researchers and reviewers alike The series contains much material still relevant today truly an essential publication for researchers in all fields of life sciences *Neoplastic Transformation in Human Cell Culture* John S. Rhim,Anatoly Dritschilo,2012-12-06 The role of carcinogenic agents in the development of human cancers is now being defined using a variety of human cells as experimental model systems A workshop on neoplastic transformation in human cell systems in vitro mechanisms of carcinogenesis was held at the Georgetown University Medical Center Washington DC on April 25 26 1991 The aims of the workshop were to present the state of the art in the transformation of human cells in culture as well as to provide insight into the molecular and cellular changes involved in the conversion of normal cells to a neoplastic state of growth The following topics were closely related to the theme of the workshops 1 Derivation of in vitro model systems epithelial fibroblastic and hematopoietic 2 Factors modulating cellular transformation 3 Usefulness of defined in vitro model systems for viral chemical and radiation carcinogenesis 4 Multistep nature of human cell carcinogenesis 5 Role of activated and suppressor oncogenes in neoplastic transformation The workshop was organized by J S Rhim and A Dritschilo cochairs G Jay J little M McCormick R Tennant and R R Weischelbaum There were 32 speakers 30 poster presentations and about 190 participants

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