Methods in Molecular Biology 945

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Scott H. Randell M. Leslie Fulcher *Editors* 

# Epithelial Cell Culture Protocols

Second Edition



## **Epithelial Cell Culture Protocols Epithelial Cell Culture Protocols**

John Haycock,Arti Ahluwalia,J. Malcolm Wilkinson

#### **Epithelial Cell Culture Protocols Epithelial Cell Culture Protocols:**

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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 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

Methods in Molecular Biology: Epithelial cell culture protocols John M. Walker, 1984

**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 MedicineTM 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 Epithelial Cell Culture Protocols Clare Wise, 2002-03-08 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 speci ized 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 est lishment 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 capa tance and confluence Using different co culture techniques it is possible also to develop models to investigate many different systems in vitro 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 Principles of Tissue Engineering Robert Lanza, Robert Langer, Joseph P. Vacanti, 2011-10-13 First published in 1997 Principles of Tissue Engineering is the widely recognized definitive resource in the field The third edition provides a much needed update of the rapid progress that has been achieved in the field combining the prerequisites for a general understanding of tissue growth and development the tools and theoretical information needed to design tissues and organs as well as a presentation by the world's experts of what is currently known about each specific organ system This edition includes greatly expanded focus on stem cells including adult and embryonic stem cells and progenitor populations that may soon lead to new tissue engineering therapies for heart disease diabetes and a wide variety of other diseases that afflict humanity This up to date coverage of stem cell biology and other emerging technologies is complemented by a series of new chapters on recent clinical experience in applying tissue engineering The result is a comprehensive textbook that we believe will be useful to students and experts alike New to this edition Includes new chapters on biomaterial protein interactions nanocomposite and three dimensional scaffolds skin substitutes spinal cord vision enhancement and heart valves Expanded coverage of adult and embryonic stem cells of the cardiovascular hematopoietic musculoskeletal nervous and other organ systems Cellular In Vitro Testing John Haycock, Arti Ahluwalia, J. Malcolm Wilkinson, 2014-08-27 Growing cells in 2D under static conditions has long been the gold standard of cell culture despite this method not being representative of the complex in vivo environment The use of animal models also has clear ethical and scientific limitations and increasingly the 3Rs replacement refinement reduction in relation to animal models are being Culture of Epithelial Cells R. Ian Freshney, 1992-02-11 Designed for cell and molecular biologists this reference work covers many of the most commonly used epithelia It presents in a practical fashion the specific protocols for their cultivation and characterization 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 Andrew J. Shaw, 1996 Cell culture has progessed 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 behaviourin vivo and the resulting model systems can be used in a wide range of research areas pharmaceutics 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 tocharacterise these model systems and the research applications for which these cultures are becoming so important Short Protocols in Cell Biology Juan S. Bonifacino, 2004-02-10 Providing condensed descriptions of more than 500 methods compiled from Current Protocols in Cell Biology this text thoroughly explores cell biology in an easily accessible hands on format Short Protocols in Cell Biology is an authoritative and indispensable guide for all life scientists and researchers who are looking to improve their understanding of cell biology methods Key Features Designed to provide quick access to step by step instructions for the essential methods used in every major area of cell biological research Contains methods from every aspect of cell biology everything needed to study the basic structure and functions of cells at both the molecular and cellular levels Culture of Immortalized Cells R. Ian Freshney, Mary G. Freshney, 1996-04-15 This is a detailed yet concise manual which provides the most up to date in vitro methods safety procedures for the immortalization of primary cultures for various cell types Each method is accompanied by step by step protocols instructions Culture Zuzana Sumbalova Koledova, 2024-02-23 Since the publication of the previous edition the use of 3D cell and organoid cultures has become more widespread across laboratories. This second edition volume expands on the previous edition with discussions about the latest organoid models developed for many more organs new hydrogels and devices for 3D culture and the organoid systems that have been improved by incorporating more components of tissue microenvironments in the in vitro culture The chapters in this book are organized into five parts and cover topics such as biofabrication organoids microfluidic systems bioprinting and image analysis 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 Thorough and cutting edge 3D Cell Culture Methods and Protocols Second Edition is a valuable resource that will stimulate new ideas foster interdisciplinary collaborations and contribute to the improvement of human health and well being 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 *Journal of Reproduction and Fertility*, 1996 Includes the Proceedings of the Society for the Study of Fertility **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 respon sible 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 Ma jor questions concerning epithelia which may be examined in culture are ad dressed 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

Biochemicals, Reagents & Kits for Life Science Research Sigma Chemical Company, 2006

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