

Basic Cell Culture

A PRACTICAL APPROACH

Edited by
J. M. DAVIS



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Basic Cell Culture A Practical Approach The Practical Approach Series

Jeffrey W. Pollard, John M. Walker



Basic Cell Culture A Practical Approach The Practical Approach Series:

Basic Cell Culture John M. Davis, 1994 In the last 20 years cell culture has developed enormously from being used only in specialized areas of research to being the cornerstone of probably the world's fastest growing industry biotechnology The primary aim of this book is to guide the newcomer progressively through all those areas which nowadays are fundamental to the performance of cell culture The book will also prove useful to the experienced worker Topics covered include setting up and equipping a cell culture laboratory sterilization of fluids and equipment culture media culture technique the maintenance of cell lines primary culture and the isolation of new cell lines specific cell types and their requirements single cell cloning quality control of cell lines and the prevention detection and cure of contamination and good laboratory practice in the cell culture laboratory

Animal Cell Culture R. Ian Freshney, 1992 *Animal Cell Culture A Practical Approach* has sold over 10 000 copies since its publication in 1986 and remains one of the most popular titles in the series This new edition takes account of the progress that has been made in the field Although the basic principles remain the same significant advances have been made in areas such as serum free media scale up and flow cytometry As these techniques have developed as tools for the cell biologist their availability to the non specialist has also increased dramatically Use of the tetrazolium salt MTT as a colorimetric indicator of viability has made a considerable impact on cytotoxicity assay and DNA fingerprinting has revolutionized the identification of individual cell strains These and other developments in the techniques described have made this new edition essential The emphasis remains on presenting techniques in a readily accessible form with detailed protocols given throughout This volume will be of use to researchers involved in both biological research and the commercial exploitation of animal cell culture

Liposomes: A Practical Approach Vladimir Torchilin, Volkmar Weissig, 2003-06-05 This book is an up to date and unique collection of experimental protocols from an area of pharmaceutical research that is essential for the development of new highly specific drugs as well as for the exploration of completely new therapeutic approaches to disease treatments

Basic Cell Culture John Davis, 2002-01-10 Serves as a guide for the newcomer to all those areas which are basic to the performance of animal including human cell culture This book is also useful for experienced workers as a source of reference when entering a new field or when setting up a new laboratory

Manual For Primary Human Cell Culture, A (2nd Edition) Kee Woei Ng, Jan-thorsten Schantz, 2010-01-04 This manual is designed to serve as a practical guide to primary human cell culture which is integral in both academic and industrial biotechnology research As in the first edition the content of the manual is not exhaustive but rather contains selected protocols for specific cell types from major tissue groupings in the body This improved second edition also includes a new section on stem cells and additional material on transfection It should serve as a foundation for individual researchers to experiment explore and establish niche protocols for their specific needs With its compact physical format that makes it portable and flexible for usage in a laboratory setting the manual will be a useful guide for all beginners in primary human cell culture work

RNA-Protein Interactions : A Practical Approach Christopher W.J. Smith, 1998-07-09 RNA protein interactions play a fundamental role in gene expression and protein synthesis Recent research into the role of RNA in cells has elucidated many more vital interactions with proteins This book provides an up to date and comprehensive guide to a wide range of laboratory procedures to investigate the interactions between RNA and proteins RNA protein interactions play a vital role in gene transcription and protein expression Interactions such as the synthesis of mRNA by RNA polymerases to the essential modification of RNA by the proteins of the spliceosome complex and the highly catalytic action of the ribosome in protein synthesis are established as being fundamental to the function of RNA Recent research into for example the role of RNA as a catalyst has elucidated many more interactions with proteins that are vital to cell function RNA Protein Interactions A Practical Approach provides a clear and comprehensive guide to the experimental procedures used in studying RNA protein interactions The approaches covered range from those initially used to detect a novel RNA protein interaction various biochemical and genetic approaches to purifying and cloning RNA binding proteins through to methods for an in depth analysis of the structural basis of the interaction The volume includes a number of procedures that have not previously been covered in this type of manual These include the production of site specifically modified RNAs by enzymatic and chemical methods and in vivo screening for novel RNA protein interactions in yeast and E coli This is the first volume to gather in one place this wide array of approaches for studying RNA protein interactions As is customary for the Practical Approach series the writing is characterized by a clear explanatory style with many detailed protocols This informative book will be a valuable aid to laboratory workers in biochemistry and molecular biology graduate students postdoctoral and senior scientists whose research encompasses this field

The Journal of Cell Biology, 1998 No 2 pt 2 of November issue each year from v 19 47 1963 70 and v 55 1972 contain the Abstracts of papers presented at the annual meeting of the American Society for Cell Biology 3d 10th 1963 70 and 12th 1972

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

A Manual for Biochemistry Protocols Markus R. Wenk, Aaron Zefrin Fernandis, 2007 Biochemistry plays an important role in all areas of the biological and medical sciences With most of the research or diagnosis involved in these areas being based on biochemically obtained observations it is essential to have a profile of well standardized protocols This manual is a basic guide for all students

researchers and experts in biochemistry designed to help readers in directly starting off their experiments without prior knowledge of the protocol The book dwells on the concepts used in designing the methodologies thereby giving ample room for researchers to modify them according to their research requirements

Biomedical Technology and Devices, Second Edition James E. Moore Jr, Duncan J. Maitland, 2013-06-25 Biomedical Technology and Devices Second Edition focuses on the equipment devices and techniques used in modern medicine to diagnose treat and monitor human illnesses Gathering together and compiling the latest information available on medical technology this revised work adds ten new chapters It starts with the basics introducing the history of the thermometer and measuring body temperature before moving on to a medley of devices that are far more complex This book explores diverse technological functions and procedures including signal processing auditory systems magnetic resonance imaging ultrasonic and emission imaging image guided thermal therapy medical robotics shape memory alloys biophotonics and tissue engineering Each chapter offers a description of the technique its technical considerations and its use according to its applications and relevant body systems It can be used as a professional resource as well as a textbook for undergraduate and graduate students

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