

Methods for Studying Mononuclear Phagocytes



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Methods For Studying Mononuclear Phagocytes

**Steven M. Colegate, Russell J.
Molyneux**



Methods For Studying Mononuclear Phagocytes:

Methods for Studying Mononuclear Phagocytes Dolph Adams, 2012-12-02 Methods for Studying Mononuclear Phagocytes is a practical guide to the study of mononuclear phagocytes that brings together various well established and useful methods for examining these cells The technical protocols have been made detailed specific practical and inclusive of the necessary mystique for immediate and direct application in the laboratory The book is divided into 11 parts arranged according to the sequence of steps that would generally be followed to study a given population of mononuclear phagocytes I methods for obtaining and culturing populations of human and animal mononuclear phagocytes II methods for separating populations of leukocytes to enrich or deplete their content of mononuclear phagocytes II criteria and techniques for identifying mononuclear phagocytes IV methods for quantifying the number of mononuclear phagocytes V techniques for studying the morphology of mononuclear phagocytes VI methods for quantifying the biochemical constituents of mononuclear phagocytes VII methods of quantifying phagocytosis pinocytosis and chemotaxis VIII methods for quantifying the secretory products of mononuclear phagocytes IX procedures for quantifying the destruction of tumor cells and of microorganisms by mononuclear phagocytes X methods for studying the cell biology of mononuclear phagocytes and XI techniques for studying mononuclear phagocytes in vivo including procedures for estimating their kinetics accumulation identification and microbicidal properties

Mononuclear Phagocytes R. van Furth, 2012-12-06 Sixteen years have passed since the first Leiden Conference on Mononuclear Phagocytes That first meeting led to new nomenclature i e the Mononuclear Phagocytes System MPS which was published in the Bulletin of the World Health Organization R van Furth et al Bull WHO 1972 46 845 852 The paradigm of the MPS has the advantage of being much more consistent than the Reticuloendothelial System RES L Aschoff Ergebn Inn Med Kinderheilk 1974 26 1 because cells with similar characteristics can be classified in the same category The essence of a new concept is according to Popper that it must be susceptible to falsification This has been attempted several times for the MPS by those who adhere to the RES However in biology no one can be certain of truth Any theory must be based on experimental observations and or theoretical considerations and both should be presented in such a way that others can try to refute it then or later One may have a theoretical or a pragmatic preference for a theory which at a given time is regarded as possibly true but later it may be shown to be false In other words what we present in this volume is regarded as true at this moment but others may consider it as not true and try to disprove it Controversies often stimulate new research

New Methods for Studying Macrophages and Mononuclear Phagocytes, 1994 [New Methods for Culturing Cells from Nervous Tissues](#) Philippe Poindron, Pascale Piguet, Dr. Eckart Förster, 2005-01-01 Presenting expert guidelines to prepare establish and maintain neural cell and tissue cultures this book will be a valuable tool for all scientists and technicians interested in basic and applied research in neurobiology neurology and neuropharmacology BOOK JACKET

Bioactive Natural Products Detection, Isolation, and Structural Determination Steven M. Colegate, Russell J.

Molyneux,1993-09-29 Bioactive Natural Products covers all the aspects of bioactive natural product research from ethnobotanical investigations to modern technologically assisted isolation and structural determination of active compounds. An internationally selected group of experts share their knowledge of a wide range of bioactivities and chemical compound classes. Topics in the chapters describing the modern application of detection, isolation and structural determination techniques are strongly supported by chapters detailing and reviewing research involving various classes of bioactivity. Research areas include the immunomodulatory, antiviral, cytotoxic, anti-inflammatory and insect behavior classes of bioactivity. Extensive referencing throughout the text is helpful to those readers not familiar with this subject and serves as a critical review for more experienced researchers. The book is also excellent for upper division or post graduate courses.

Tissue Culture Techniques Bernice M. Martin,2013-12-01 ACKNOWLEDGMENTS XI II INTRODUCTION I STERILITY 5 Aseptic Technique 5 Physical manipulations Use of the sterile cabinet hood Sterilization Methods 14 Heat Radiation Toxic gas Filtration Antibiotics Quality Control of Sterilization 23 Routine labeling Suggested Readings 25 Exercises 26 vi CONTENTS ROUTINE CELL CULTURE 29 Feeding Schedules and Media Components 29 General properties of media and salt solutions water as a reagent Establishing feeding schedules Subcultivation 46 Solutions and methods for adherent cells Common enzyme solutions Inoculating seeding the cultures Cell Enumeration and Cell Viability 54 Hemocytometer Particle counter Cell viability Putting Routine Methods to Work 63 Normal cell growth characteristics Detecting and Disposing of Contamination 66 Bacteria and fungi Fungi Mycoplasma Viruses Dealing with contamination Troubleshooting 73 Inadequate cell growth Recurrent contamination When to call your vendor Safety 80 Biological hazards Chemical hazards Suggested Readings 85 Problem Set 85 Exercises 89 EXPERIMENTS IN CULTURE 91 II Alterations of the Media 91 Serum Treatments of serum Plasma derived serum Serum free and low protein media Substrata 101 Coating plasticware with solutions Alterations with polymers Using cells to coat the plasticware Culturing cells on microcarriers Altering the Environment 106 Temperature changes Gaseous changes Problem Set 110 Exercises 110 CONTENTS vii PRIMARY CELL CULTURE 113 Isolation 114 Dissection Enzymatic dissociation methods Nonenzymatic isolation Purification of cell suspensions Considering yield and survival Characterization

American Review of Tuberculosis and Pulmonary Diseases, 1929 Includes Abstracts section previously issued separately

Technetium-99m Pharmaceuticals Ilse Zolle,2007-01-28 Radioactive drug development is a multi disciplinary task therefore in a concerted effort dedicated scientists and experts from different fields of specialisation have contributed to this book. It is presented in two sections. Section 1 contains basic principles and methods used for analysis information on the chemistry of technetium and on radiopharmaceuticals labelled with technetium 99m, the characteristics of the 99 Mo 99mTc generator of kits and formulations for in vitro labelling and special safety aspects for in vivo labelling of blood cells. Section 2 contains monographs of 99mTc radiopharmaceuticals used in nuclear medicine. Each monograph includes information on the chemistry, formulation, commercial products and trade

names factors affecting in vivo performance clinical information on pharmacokinetics as well as details concerning the clinical application and the radiation dose to patients Intramural Research Program National Cancer Institute (U.S.). Division of Cancer Biology and Diagnosis,1979 **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 *Micronutrients and Immune Functions* Adrienne Bendich,1990 *Physiology* Sherwood M. Reichard,James P. Filkins,2013-03-09 This comprehensive treatise on the reticuloendothelial system is a project jointly shared by individual members of the Reticuloendothelial RE Society and bio medical scientists in general who are interested in the intricate system of cells and molecular moieties derived from those cells which constitute the RES It may now be more fashionable in some quarters to consider these cells as part of what is called the mononuclear phagocytic system or the lymphoreticular system Nevertheless because of historical developments and current interest in the subject by investigators from many diverse areas it seems advantageous to present in one comprehensive treatise current information and knowledge concerning basic aspects of the RES such as morphology biochemistry phylogeny and ontogeny physiology and pharmacology as well as clinical areas including immunopathology cancer infectious diseases allergy and hypersensitivity It is anticipated that by presenting information concerning these apparently heterogeneous topics under the unifying umbrella of the RES attention will be focused on the similarities as well as interactions among the cell types constituting the RES from the viewpoint of various disciplines The treatise editors and their editorial board consisting predominantly of the editors of individual volumes are extremely grateful for the enthusiastic cooperation and enormous task undertaken by members of the biomedical community in general and especially by members of the American as well as European and Japanese Reticuloendothelial Societies **Cumulated Index Medicus** ,1974 Annals of the New York Academy of Sciences Thomas Lincoln Casey,Gilbert Van Ingen,Charles Lane Poor,Edmund Otis Hovey,Ralph Winfred Tower,2003 **Current Research on Clinical Cancer Diagnosis, Therapy, and Patient Care** Smithsonian Science Information Exchange. Current Cancer Research Project Analysis Center,1975 2775 references to research projects being conducted in the United States and elsewhere Entries arranged under 11 topics e g Cancer therapy Supportive care of cancer patients and Rehabilitation Entries include title researcher address contract number summary and supporting agency Indexes by subjects investigators contractors supporting agencies and contractor numbers **Cell Separation** Thomas G. Pretlow,Theresa P. Pretlow,2014-05-10 Cell Separation Methods and Selected Applications is a compendium of articles on the design and or application of methods for the separation of cells This volume presents contributions on relatively finite subjects on cell

separation It covers topics on cell separation such as methods for obtaining cells in suspension from animal tissues some of the kinds of data that are helpful in the description of cell purifications and separation of host cells infiltrating tumors and allografts by velocity sedimentation at unit gravity The separation of different kinds of nucleated cells from blood by centrifugal elutriation a new approach to the separation of cells at unit gravity and the isolation and culture of homogeneous populations of glomerular cell types are elucidated as well Experimental oncologists hematologists immunologists cell biologists endocrinologists and others who are not already expert in the use of methods for cell separation will find the book highly useful Reviews on Immunoassay Technology S.B. Pal,1988-06-18 The books in this series comprise review articles and descriptions of methods of immunoassay which are not reliant on radioisotopes and reflect the growing importance of immunoassay technologies Journal of the National Cancer Institute National Cancer Institute (U.S.),1975 *JNCI*, *Journal of the National Cancer Institute* National Cancer Institute (U.S.),1986 *Environmental Health Perspectives* ,1991

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