

Lysosomes: A laboratory handbook

Dingle, J. T

Note: This is not the actual book cover

Lysosomes A Laboratory Handbook

Eric Holtzman



Lysosomes A Laboratory Handbook:

Lysosomes J. T. Dingle, 1972 **Lysosomes** J. T. Dingle, 1972 **Lysosomes** Eric Holtzman, 2013-11-11 In 1976 I wrote a monograph on lysosomes *Lysosomes A Survey* Springer Verlag Vienna that was intended as an up to date comprehensive survey Whatever success I may have achieved then in fulfilling that intention even the effort now would be foolhardy The literature has grown so rapidly in the past decade that I certainly could not even read all of the essential papers let alone understand and analyze them My goal here therefore is simply to introduce the major features of lysosomes at a level I hope will be useful both to advanced students and to researchers interested in obtaining a broad background This is in keeping with the design of the Cellular Organelles series the series is more a set of advanced texts than of review monographs This design carries with it the decision not to support each point by references to the original literature I apologize for the injustice involved in such a decision but feel that in any event it would be impossibly unwieldy to cite adequately and in a balanced manner the contributions of the vast network of researchers responsible for the information upon which I draw *Biology of the Lysosome* John B. Lloyd, Robert W. Mason, 2012-12-06 Volume 27 provides a comprehensive review of current knowledge of lysosome function in mammalian cells The book's unique contribution is its series of chapters that offers unparalleled treatment of the metabolic activities of lysosomes Current Catalog National Library of Medicine (U.S.), 1982 First multi year cumulation covers six years 1965-70 U.S. Environmental Protection Agency Library System Book Catalog United States. Environmental Protection Agency. Library Systems Branch, 1975 The Reticuloendothelial System Sherwood M. Reichard, 2012-12-06 This comprehensive treatise on the reticuloendothelial system is a project jointly shared by individual members of the Reticuloendothelial RE Society and biomedical 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 **Methods in Human Cytogenetics** E. Passarge, H.G.

Schwarzacher,U. Wolf,2012-12-06 This volume was originally intended to be an English translation of the book MettlOden in der medizinischen Cytogenetik published in 1970 Just about then however a number of new techniques were introduced in human cytogenetics and soon acquired the utmost importance particularly in clinical diagnosis so that the English edition had to be considerably enlarged As a result there are now twelve chapters instead of eight and two additional authors have been called upon Dr KRONE and Dr SCHNEDL In addition to the up to date presentation of conventional methods of cell culture and techniques for the preparation and identification of human chromosomes this text covers the various techniques of producing banding patterns and applying them in chromosome identification Further it deals with the culture of amniotic fluid cells and gives instructions for handling tissue culture cells for biochemical analysis it thus meets the ever increasing requirements of a modern cell culture laboratory To paraphrase the aims of this book we quote part of the preface to the German edition It was intended to collect the various methods so as to make them accessible for laboratory use Furthermore it is hoped that the reader faced with current research problems will be stimulated to modify and supplement the techniques described instead of merely applying them automatically In a rapidly developing field some methods are still preliminary and no final presentation seems possible

Methods in Mammalian Reproduction Joseph C. Jr. Daniel,2012-12-02 Methods in Mammalian Reproduction presents some of the techniques for manipulating analyzing observing testing and generally experimenting with mammalian mothers and their gametes and embryos Mammalian reproduction involves an intimate relationship between mother and embryo The first 18 chapters are arranged in an order that follows a developmental sequence from oocyte to fetal organs and the remaining seven chapters deal with the maternal side of the relationship With strong focus on laboratory rodents and lagomorphs the book starts with an introduction to in vitro oocyte maturation and experimental production of mammalian parthenogenetic It goes on to describe the microtechniques in pre implantation of embryos production of chimeras techniques for early embryonic tissue separation mammalian embryo preservation by freezing and in vitro development of whole mouse embryos beyond the implantation stage Chapters 11 15 discuss the in vitro implantation of mouse blastocysts advances in rabbit embryo and in large mammal embryo cultures embryo transfer in large domestic mammals and manipulation of marsupial embryos and pouch young The following chapters cover reproduction experiments using marsupials domestic farm species and primates including humans Finally the concluding chapters tackle the use of amniocentesis in prenatal diagnosis collection and analysis of female genital tract secretions analysis of antifertility action of intrauterine devices and surgical induction of endometriosis This book will be helpful to students teachers researchers and clinical researchers who demand for more and better procedures for analysis of mammalian reproduction

National Library of Medicine Current Catalog National Library of Medicine (U.S.),1971 First multi year cumulation covers six years 1965 70

Lysosomes and Cell Function Dennis Pitt,1975 The lysosome system Occurrence of lysosomes Physiological functions of lysosomes role of lysosomes in intracellular digestion Physiological functions of

lysosomes role of lysosomes in secretion and extracellular digestion role of lysosomes and acid hydrolases in developmental processes Lysosomes in disease and injury **Phagocytosis: The Host** S. Gordon,1999-11-22 An accompanying volume Volume 6 in this series presents strategies of cellular invasion from the viewpoint of the microbe This field of study is growing rapidly after a somewhat slow start over recent decades This collection of invited chapters attempts to reflect current research and brings together cell biologists microbiologists and immunologists with disparate interests However there is a certain unity even repetition of key themes hopefully like a symphony rather than a boring catalogue It will be evident that editorial bias favors intracellular parasitism and medically important organisms The neutrophil is far more than a supporting player to the macrophage and some attempt is made to remind the reader of some of its unique skills To retain a manageable size the emphasis is on relatively early events such as mutual recognition cell entry and response rather than on longterm changes in gene expression by either host cell or pathogen Viruses are excluded not because of lack of importance but because of somewhat different research approaches although it is cytogenetics share common strategies in invasion and intercellular spread *Protein Turnover and Lysosome Function* Harold L. Segal,Darrell J. Doyle,2014-06-28 Protein Turnover and Lysosome Function comprises the proceedings of a symposium under the same title held at the State University of New York at Buffalo on August 21-26 1977 The book discusses mechanisms of protein turnover as well as the identification and characterization of intracellular proteases The text also describes the internalization of macromolecules into the intracellular digestive system the types of specificity entailed and the fate of the membrane material involved in the vacuolization process Biochemists pathologists cell biologists molecular biologists and physiologists will find the book invaluable International Review of Cytology ,1982-03-22 International Review of Cytology Pathophysiology of Lysosomal Transport Jess G. Thoene,1992-05-12 The field of lysosomal transport has grown exponentially in the past decade Research in this previously unknown function of lysosomes has resulted in understanding the metabolic defect in three inborn errors in metabolism nephropathic cystinosis cobalamin F deficient methylmalonic aciduria and Salla disease Seventeen transport systems mediating the exodus from lysosomes of amino acids sugars nucleosides phosphate calcium cobalamin and sulfate have been described Pathophysiology of Lysosomal Transport presents the current status in this field as described by the authors who made the original discoveries Each chapter examines the pathological consequences resulting from a defect in a particular system The book also examines the transfer of macromolecules into the lysosomes describes the analogy between mammalian lysosomes and vacuoles of plants and fungi and reviews non mediated transport A comprehensive chapter on the methodology required to perform lysosomal studies will benefit researchers undertaking investigations in this area *Clinical Research Involving Pulmonary Disorders* Mieczyslaw Pokorski,2018-06-08 This book presents the current trends and state of the art solutions addressing various issues related to pulmonary disorders Diagnostic and therapeutic challenges are tackled starting with the noncommunicable diseases of sarcoidosis and granulomatosis with

polyangiitis Pulmonary involvement practically unavoidable runs an insidious course and is often occulted by systemic symptoms The establishment of a firm diagnosis with a precision no one could oppugn is difficult Other issues pertain to quality of life disease preventive measures and the move toward personal health care in chronic sufferers from multiple conditions in later life There is also an update on the prevalence and diagnostic and treatment challenges of extrapulmonary tuberculosis In addition the place of neuroproteomics in modern clinical practice is presented The practical insights emphasize the role of science in advancing biomedical knowledge and care The book is addressed to researchers and practitioners and allied health care professionals engaged in effective patient care and therapy *Articular Synovium* P. Franchimont,1982-05-18 *The Cytochemical Bioassay of Polypeptide Hormones* J. Chayen,2012-12-06 The cytochemical bioassay system was described in a short abstract in 1971 and more fully in the cytochemical bioassay of corticotrophin in 1972 Since then cytochemical bioassays have been described for several polypeptide hormones and these assays are already widely used It is expedient that the subject should be reviewed as it is in this monograph by one writer who has had the good fortune to have taken part in the growth of cytochemistry from its early origins to its present position as the basis of possibly the most sensitive bioassay system currently available However it should be noted that major contributions have been made by many both to the development of the subject and to the establishment of the bioassays The object of this preface is to try to give some perspective to the growth of this subject and to record that the cytochemical bioassay system has been fostered by many outstanding scientists in an atmosphere of remarkable goodwill To begin with there could have been no cytochemical bioassays until cytochemistry had been converted from its rather unsure origins into a precise and quantitative form of cellular biochemistry This was done with skill and enthusiastic dedication by my colleagues Dr Lucille Bitensky Dr F P Altman Dr R G L W Poulter and Mr A A Silcox first at the Royal College of Butcher Dr *Advances in Cancer Research* ,1992-12-17 *Advances in Cancer Research* Proceedings ,1977

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