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Lysosomes A Laboratory Handbook

J. T. Dingle



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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 I ldvanced 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 refer ences 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 **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 **Current Catalog** National Library of Medicine (U.S.), 1982 First multi year cumulation covers six years 1965 70 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 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 con cerning 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 het erogeneous topics under the unifying umbrella of the RES attention will be focused on the similarities as well as interactions among the cell types constitut ing 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 *Pathogenesis of Stress-Induced Heart Disease* R. E. Beamish, V. Panagia, Naranjan S. Dhalla, 2012-12-06 A recent comprehensive study of stress and human health by the Institute of Medicine National Academy of Sciences concludes that individuals who experience any of a wide range of stressful events or situations are at increased risk of developing a physical or mental disorder including heart disease Since cardiovascular disease continues to be a leading cause of illness and death and since the etiology and pathogenesis of several of the commonest forms of heart disease are incompletely known it is of fundamental importance to study the potential role of stress in the genesis of heart disease Accordingly an International Symposium on Stress and Heart Disease was held in Winnipeg Canada June 26-29 1984 and the proceedings form the basis of this book and its companion volume *Stress and Heart Disease* The connection between stress the behavioral sciences and heart disease the biomedical sciences occurs in the mechanisms through which the brain affects or controls the endocrine and the autonomic nervous systems Initially this linkage appeared to be relatively simple mainly involving catecholamines and corticosteroids and communication between nerve cells was thought to be electrical Now knowledge has increased and concepts have changed dramatically Major advances have occurred in biochemical anatomical physiological pharmacological pathological and behavioral aspects of the neuroendocrine system The overwhelming significance of chemical communication in the central nervous system has become clear Research and Development of a Selective Algicide to Control Nuisance Algal Growth Bernard L. Prows, W. F. McIlhenny, 1974 *Ecological Research Series*, 1973

Controlled Drug Delivery Stephen D. Bruck, 2019-06-04 Published in 1983 Volume 2 deals with critical analyses of various test methodologies of polymeric implants including their acute and chronic toxicological evaluation Echinoderms Michel Jangoux, 2020-08-18 This book is an outcome of the European colloquium on Echinoderms held at Brussels in 1979 It is divided into three major sections paleontology skeletal structures and systematics and zoogeography The book is useful for zoologists scientists in zoology and academics **Theory and Strategy in Histochemistry** Hans Lyon, 2012-12-06 If you want practical information on how to use this book please refer to Note to the Readers p VII Histochemistry and cytochemistry are essential tools in biomedical research and routine service laboratories Most texts on histochemistry fall into one of two categories 1 Encyclopaedic texts covering all or nearly all information available on the whole or selected parts of histochemistry 2 Reviews or surveys of methods found to be useful by the author(s) While the former category often appeals to the more philosophically inclined reader direct guidance on the selection of technique may be difficult to find In contrast the latter category are often excellent sources for details on how to perform a particular method with a reasonable chance of success Consideration of the exact mechanism of staining of possible reasons for failure and of alternative techniques are however frequently lacking This book is an introduction to the scientific basis of histochemistry and is intended to provide a background for the selection and development of appropriate methods It is not a cook book and

readers expecting exhaustive methodological descriptions will be disappointed Although most of the contributors to this book would not describe themselves as histochemists they have all at some time found it essential to develop a basic understanding of histochemistry This book contains the information they would have greatly appreciated ready access to at that time U.S. Environmental Protection Agency Library System Book Catalog United States. Environmental Protection Agency. Library Systems Branch, 1975

Targeted Drug Delivery Rudolph L. Juliano, 2012-12-06 The chapters in this volume describe a powerful emerging approach for the therapy of disease Targeted drug delivery that is control of the kinetic behavior tissue distribution and subcellular localization of pharmacologically active agents offers an important means for improving the efficacy of a wide variety of drug therapies This is particularly true for therapeutic approaches based on newer agents which are the products of recombinant DNA research These agents be they peptides proteins or oligonucleotides tend to be larger more complex and less stable than traditional drugs Thus they stand to benefit most from drug delivery systems which can protect them from premature degradation and which can carry them to critical target sites in the body This volume examines several important aspects of the current state of drug delivery research it also attempts to project future directions for this field Successful approaches to drug targeting are based first of all on a sophisticated understanding of the biological barriers encountered by the drug carrier complex as it moves from the portal of administration to the ultimate target site A second aspect of successful drug delivery is appropriate matching of the disease entity with the pharmacologically active substance and with the delivery system Thus it is important to be aware of the variety of delivery technologies which currently exist and to be sensitive to their strengths and limitations Methods in Human Cytogenetics E. Passarge, H.G. Schwarzbacher, 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

Bone Brian K. Hall, 1991-11-19 Bone A Treatise is

a series of seven volumes devoted to providing the most up to date comprehensive and authoritative coverage of all aspects of bone. Seventy four chapters have been written by 127 respected authors all of whom are actively engaged in basic applied and clinical bone research. The seven volumes in this unique series are organized thematically each volume integrates structure function biochemistry metabolism and the molecular and clinical aspects of a particular aspect of the biology of bone. Bone forming cells are treated in Volume I. Bone resorbing cells are covered in Volume II. Volumes III and IV examine the extracellular matrix of bone with Volume III concentrating on the structure of bone matrix and on bone specific proteins while Volume IV focuses on the mineralization calcification of that matrix. Volume V addresses the repair and regeneration of bone. Volumes VI and VII explore bone growth and development.

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.

Fish Immunology Margaret J. Manning, Mary F. Tatner, 2014-06-28. Fish Immunology contains the proceedings of a symposium organized by the Fisheries Society of the British Isles held in Plymouth, England, 11-13 July 1983. This volume contains 29 chapters and opens with a study on the prevention of disease outbreak or treatment of disease in fish farms with drugs or chemicals. Separate chapters follow on topics such as immune phenomena in Teleostei or Anura, phagocytosis in fish, the granulocytes of three elasmobranch species namely *Scyliorhinus canicula*, *Raja clavata* and *R. microcellata* and phagocytic cells in the dogfish *Scyliorhinus canicula* I and levels of precipitin in two groups of wild fish, a group believed to be suffering from Ulcerative Dermal Necrosis (UDN) and a healthy group showing no external evidence of disease. Subsequent chapters deal with sequential antigenic competition in teleosts challenged with the fish furunculosis bacterium *Aeromonas salmonicida*, the occurrence of vaccine uptake at the skin surface of rainbow trout and vaccination and development of immunological memory in carp.

Cytochemical Bioassays

J. Chayen, Lucille Bitensky, 2013-10-22. Cytochemical Bioassays: Techniques and Clinical Applications describes the techniques and clinical applications of cytochemical bioassays particularly with respect to polypeptide hormones. This book discusses the clinical and research implications of studies that use these techniques. This text is comprised of 14 chapters, the first of which introduces the reader to the origins and general principles

of cytochemical bioassays along with their advantages This discussion is followed by a chapter that explains what is meant by an assay for what purpose assays are done the basic components of an assay method and the nature of the difference between in vivo and in vitro hormone bioassays in vitro ligand assays and enzyme assays Attention then turns to the techniques of cytochemical bioassays and the cytochemical bioassay procedures for adrenocorticotrophic hormones thyroid stimulating hormones the thyroid stimulating antibody of Graves disease thyroid growth stimulating and blocking immunoglobulins and luteinizing hormones The next chapters focus on the technique and clinical relevance of a cytochemical bioassay for gastrin like activity and for measurement of antidiuretic hormones parathyroid hormones angiotensin II natriuretic hormones and hypothalamic regulating hormones This book will be of interest to clinicians and practitioners of biology biochemistry and endocrinology

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