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Continuation of Protoplasmatologia

Volume 3

E. Holtzman

Lysosomes: A Survey

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Lysosomes A Survey Cell Biology Monographs Continuation Of Protoplasmatologia Vol 3

Alan M. Poisner, José M. Trifaró



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Lysosomes: A Survey E. Holtzman, 2012-12-06 This brief monograph is intended chiefly for non specialists and for others interested in a concise introduction to the field The literature on lysosomes is growing so rapidly that any effort at exhaustive comprehensiveness would be foredoomed to failure Fortunately an extensive series of reviews has been published in the past few years see especially DINGLE and FELL 1969 DINGLE 1972 1973 a HERS and VAN HoOF 1973 and the history of the organelles is brief enough that major contributors to all stages of that history are still available to provide first hand discussions e g DE DUVE and WATTIAUX 1966 DE DUVE 1969 NOVIKOFF 1971 1973 see also VAN FURTH for work on phago cytes and DE REUCK and CAMERON 1963 for useful reviews of early work New York N Y September 1975 E HOLTZMAN Contents I General Considerations and Background 1 1 Perspectives 1 1 2 Definitions 2 1 2 1 General Functional Categories 2 1 2 2 Outline of Lysosome Functioning in Phagocytes 3 1 2 3 Additional Terms Heterophagy and Autophagy 4 1 3 Characterization of Lysosomes 4 1 3 1 Basic Biochemical Characteristics of Lysosomes 5 1 3 1 1 Key Features of Lysosomes 8 1 3 1 2 The Lysosomal Enzymes 8 1 3 1 3 Digestion in Lysosomes 11 1 3 104 Lysosomal Permeability 13 1 3 2 Some Cytochemical and Morphological Characteristics 15 1 3 2 1 Cytochemical Methods 16 1 3 2 2 Cytochemical Studies of Exogenous Tracers **Acta Biologica Academiae Scientiarum Hungaricae** ,1980 *The Histochemical Journal* ,1968

Fine Structure of the Uterine Epithelial Proliferation of the Mongolian Gerbil (*Meriones Unguiculatus*) Janice Kay Fritz Fitzharris, 1981 The Secretory Process Alan M. Poisner, José M. Trifaró, 1982 **The Secretory Granule** Alan M. Poisner, José M. Trifaró, 1982 *Nature* Sir Norman Lockyer, 1869 Host Bibliographic Record for Boundwith Item Barcode 30112078737878 and Others ,2013 **Membrane Fusion** George Poste, 1978 Presents up to date surveys of recent advances in our understanding of membranes and cell surfaces Preface **Rev Can Biol** ,1975 *Novai* *literatura po voprosam évoli* *u* *t* *s* *ii organicheskogo mira* ,1979 **Börsenblatt für den deutschen Buchhandel** ,1976

Bibliografia Republicii Socialiste România ,1977 **Novinky zahraniční literatury** ,1977 **Lysosomes** Eric Holtzman, 1989-01-31 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 *Lysosomes and Cell Function* Dennis Pitt,1975 **Lysosomes and Lysosomal Diseases** ,2015-02-04 This new volume of Methods in Cell Biology looks at methods for lysosomes and lysosomal diseases Chapters focus upon practical experimental protocols to guide researchers through the analysis of multiple aspects of lysosome biology and function In addition it details protocols relevant to clinical monitoring of patients with lysosomal diseases With cutting edge material this comprehensive collection is intended to guide researchers for years to come Covers sections on model systems and functional studies imaging based approaches and emerging studies Chapters are written by experts in the field Cutting edge material **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 Frederick R. Maxfield,James M. Willard,Shuyan Lu,2016-06-22 Discussing recent findings up to date research and novel strategies the book integrates perspectives from pharmacology toxicology and biochemistry to illustrate the potential of lysosomes in drug discovery and development Explores basic principles and properties of lysosomes that allow them to act as regulators of cell metabolism therapeutic targets and sites for activation of drug conjugates Discusses the role of lysosomes in metabolism drug targeting apoptosis cancer aging inflammation autophagy metabolism toxicity and membrane repair Introduces new pathways in therapeutic development and new mechanisms in drug development

Lysosomes Pooja Dhiman,2017-08-30 This book covers current advances in disorders associated with lysosomal function along with techniques to study its function All chapters are complete in themselves but united under a common research study topic This publication aims at providing a thorough overview of the latest research efforts by international authors on lysosomal diseases and opens new possible research paths

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