The Secretory and Endocytic Paths: Mechanism and Specificity of Vesicular Traffic in the Cell Cytoplasm (Cell Biology: A Series of Monographs)

Tartakoff, Alan Michael

Secretory And Endocytic Paths Mechanism And Specificity Of Vesicular Traffic In The Cell Cytoplasm

Chandan Sengupta

Secretory And Endocytic Paths Mechanism And Specificity Of Vesicular Traffic In The Cell Cytoplasm:

The Secretory and Endocytic Paths Alan Michael Tartakoff, 1987 A broadly based highly readable account of the intracellular transport of macromolecules along the secretory and endocytic paths emphasizing basic concepts and essential methods of cell biology and challenges for future research Adopting an interdisciplinary approach that spans the fields of anatomy biochemistry and molecular biology it methodically juxtaposes and compares the information and concepts relating to the two paths The major sections on these topics are further divided into sections discussing composition of each of the two compartments how they participate in intracellular transport and specificity of transport The focus throughout is on the need for input from molecular biology to deepen the knowledge of cell biological issues Also included is a current bibliography along with ample illustrations and line drawings of electron micrographs Vesicular Transport in the Secretory and Endocytic Pathways Anne Müsch, 2014-09-01 The concept of vesicular traffic as a means of protein transport in and out of cells and between membrane compartments has been established since the 1960s Its basic principles are beautifully simple yet the details of protein transport are complex enough to find novel classes of transport vesicles and trafficking itineraries still being described to date In this treatise the reader will be introduced to mechanisms of vesicle sculpting cargo selection vesicle targeting and vesicle consumption that have emerged as common characteristics of multiple transport steps in the exocytic and endocytic pathways These fundamentals also reveal the basis for the specificity and selectivity of individual transport steps We will further discuss how protein transport might lead to the establishment and maintenance of the endomembrane system of eukaryotic cells The concepts for these mechanisms are based on experimental evidence combined with mathematical modeling that can disclose the minimal requirements for the generation of the distinct membrane compartments Table of Contents Compartmentalization Is a Hallmark of Eukaryotic Cells Organelles Can Be Classified Based on Their Origin There Are Multiple Entry Points Into the Endomembrane System and a Network of Connecting Trafficking Routes There Are Exceptions and Extensions to the Classic Trafficking Itineraries A Mathematical Model Can Explain How Organelle Size Is Established and Maintained Coats and SNAREs Constitute the Core Machinery for Vesicle Budding and Fusion A Mathematical Model Explains How Coats and SNAREs Are Sufficient to Generate Organelle Identity How Vesicle Formation Is Linked to Cargo Incorporation RabGTPases Are the Master Regulators of Vesicular Traffic The Mechanisms and Physiological Roles of Endocytosis Models for Protein Transport in the Golgi Apparatus Summary Acknowledgments References Author Biography <u>Ultrastructure of the Extraparietal Glands of the Digestive Tract</u> Allessandro Riva, P. Motta, 2012-12-06 This volume the sixth of the series represents the natural counterpart of the previous volume Ultra structure of the Digestive Tract Unlike the latter however whose contents fell entirely within the domains of gastroenterology Ultrastructure of the Extraparietal Glands of the Digestive Tract encom passes a few cognate sciences such as hepatology pancreatology and even oral biology which are usually dealt with separately This allows starting from cell

biology embryology and comparative anatomy a comprehensive survey of organs that have much in common both structurally and functionally The chapters of this book have been compiled by well known experts in the field with the aim not only of reviewing and pointing out the state of the art of the subject covered but also of giving directions for future work Furthermore through the integration of electron microscopy with immunocytochemistry autoradiography freeze fracture maceration enzymatic digestion etc and by providing superb illus trative material the authors substantiate the pivotal role played by modern morphology in under standing human physiology and pathology In fact it must be stressed that a consistent part of the tissues studied here are from human origin. We believe that this volume should be read not only by scientists and teachers active in the field but also by a larger audience of students and professionals interested in knowing the scientific foundations of biomedicine National Library of Medicine Current Catalog National Library of Medicine (U.S.),1988 **Trafficking Inside Cells** Nava Segev, 2010-05-30 This book covers the past present and future of the intra cellular trafficking field which has made a quantum leap in the last few decades It details how the field has developed and evolved as well as examines future directions Protein Delivery Lynda M. Sanders, R. Wayne Hendren, 2005-11-21 Thirteen chapters by industrial and academic authorities in this rapidly evolving field present detailed case histories and reviews of current sophisticated protein drug delivery technologies Highlights include a comprehensive overview of insulin delivery and a discussion of the use of biodegradable microspheres Author's Handbook of Styles for Life Science Journals Michel Atlas, 1995-11-08 Let the Author's Handbook of Styles for Life Science Journals save you time and trouble by providing a one stop resource for all your manuscript writing requirements No more plowing through your journal collection or wandering the library stacks to get those elusive journal pages containing instructions to authors This unique book contains all the information you need to know whether the journal will consider your manuscript the journal s submission address how to construct the abstract illustrations tables and references and specific information on copyright multiple authorship statistical analyses and page charges The Author's Handbook of Styles for Life Science Journals gives all this information for 440 of the most important English language life science journals Titles were selected from the Journal Rankings by Times Cited list in the Science Citation Index Journal Citation Report Because this report is heavily weighted toward the medical sciences other life science journals are incorporated into the book based on general level of prestige and reputation In addition some new titles that promise to be important to their fields like Nature Medicine and Emerging Infectious Diseases are also included Organized by journal title the handbook s entries are uniformly arranged to allow direct comparison between journals Information is presented in an easy to use easy to read format with clear and explicitly stated instructions The Author's Handbook of Styles for Life Science Journals gives authors in the life sciences all the information necessary for the correct and complete compilation of a manuscript for submission to their journal of choice Current Catalog National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 Cell Biology and

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The Biogenesis of Cellular Organelles Chris Mullins, 2007-03-06 The Biogenesis of Cellular Organelles represents a comprehensive summary of recent advances in the study of the biogenesis and functional dynamics of the major organelles operating in the eukaryotic cell This book begins by placing the study of organelle biogenesis in a historical perspective by describing past scientific strategies theories and findings and relating these foundations to current investigations Reviews of protein and lipid mediators important for organelle biogenesis are then presented and are followed by summaries focused on the endoplasmic reticulum Golgi lysosome nucleus mitochondria and peroxisome **Guide to Signal Pathways in Immune Cells** E. Nigel Wardle, 2009-04-21 To read current biomedical science one has to have a working knowledge of how important effector molecules cause transduction of their signal within cells altering the control of genes This work aims to provide that basic knowledge for medical readers Students of immunology or cell biology will note its relevance One will learn how platelets macrophages neutrophils T and B lymphocytes and natural killer cells perform their functions and how skin breast prostate and colon cancers emerge The associated diagrams and tables are used to obviate extensive text Appropriate references to articles and reviews by workers in each field are given so that further consideration can easily be undertaken We are all at differing stages of our appreciation of immunology and of pat physiology Some persons will have a profound background in biochemistry or molecular biology Others will have a reminiscence of lectures received years ago Since this work is principally for clinical doctors the sections that can be avoided at first reading are marked with an asterisk Always proceed line by line and think of associations that you know Do you feel comfortable with the statement Interleukin 6 stimulates glucose uptake in renal proximal tubular cells and that action is associated with Stat3 PI3K Akt MAPKs and NF kB signal pathways If not please read on Cumulated Index Medicus, 1994 Secretion of Cytokines and Chemokines by

Innate Immune Cells Paige Lacy, 2015-05-19 The release of cytokines chemokines and other immune modulating mediators released from innate immune cells including eosinophils neutrophils macrophages dendritic cells mast cells and epithelial cells is an important event in immunity Cytokine synthesis and transportation occurs through the canonical protein trafficking pathway associated with endoplasmic reticulum and Golgi How cytokines are released upon their exit from the trans Golgi network varies enormously between cell types and in many cells this has not yet been characterized This issue delves into the plethora of cytokines released by innate immune cells and where possible shines light on specific mechanisms that regulate trafficking and release of Golgi derived vesicles Each cell type also shows varying degrees of dependency on microtubule organization and actin cytoskeleton remodeling for cytokine secretion Understanding the mechanisms of cytokine secretion will reveal the inner workings of individual innate immune cell types and allow identification of critical regulatory steps in cytokine release Endoplasmic Reticulum Stress in Health and Disease Patrizia Agostinis, Samali Afshin, 2012-08-13 The Endoplasmic Reticulum ER is an organelle with extraordinary signaling and homeostatic functions It is the organelle responsible for protein folding maturation quality control and trafficking of proteins destined for the plasma membrane or for secretion into the extracellular environment Failure overloading or malfunctioning of any of the signaling or quality control mechanisms occurring in the ER may provoke a stress condition known as ER stress Accumulating evidence indicates that ER stress may dramatically perturb interactions between the cell and its environment and contribute to the development of human diseases ranging from metabolic diseases and cancer to neurodegenerative diseases or impact therapeutic outcome This book primarily focuses on the pathophysiology of ER stress It introduces the molecular bases of ER stress the emerging relevance of the ER mitochondria cross talk the signaling pathways engaged and cellular responses to ER stress including the adaptive Unfolded Protein Response UPR autophagy as well as cell death Next the book addresses the role of ER stress in physiology and in the etiology of relevant pathological conditions like carcinogenesis and inflammation neurodegeneration and metabolic disease The last chapter describes how ER stress pathways can be targeted for therapeutic benefit Altogether this book will provide the reader with an exhaustive view of ER stress biology and the latest insights in the role of ER stress in relevant human diseases Cell and Molecular Biology Chandan Sengupta, This book has been published with all reasonable efforts taken to make the material error free after the consent of the author No part of this book shall be used reproduced in any manner whatsoever without written permission from the author except in the case of brief quotations embodied in critical articles and reviews The Author of this book is solely responsible and liable for its content including but not limited to the views representations descriptions statements information opinions and references The Content of this book shall not constitute or be construed or deemed to reflect the opinion or expression of the Publisher or Editor Neither the Publisher nor Editor endorse or approve the Content of this book or guarantee the reliability accuracy or completeness of the Content published herein and do not make any representations or warranties of any kind

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