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Peroxisomes and Related Particles in Animal Tissues

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T. Bücher,W. Sebald,H. Weiss



Peroxisomes And Related Particles In Animal Tissues:

Peroxisomes and Related Particles in Animal Tissues P. Böck, R. Kramar, M. Pavelka, 2013-11-11 In modern scientific investigation the fields of biochemistry molecular biology and morphology comprise an indivisible area of study The present book results from the cooperation of a biochemist and morphologists the revision and unified treatment of available data is the primary object of our work A comprehensive review of all the available literature is therefore beyond the scope of this volume It is intended to be a manual to be used in the laboratory with convenient guidelines for practical work Plant microbodies have been treated by B GERHARDT in Volume 5 of this series The discovery of fatty acid oxidation in animal peroxisomes has proved once more that plant and animal microbodies are members of the same family of organelles It provided new insights into the physiological meaning of these particles our understanding of these classical cell organelles is undergoing continual alteration and development PETER B cK Vienna July 1980 ROBERT KRAMAR MARGIT PAVELKA Acknowledgements We wish to express our gratitude to Prof Dr D H FAHIMI and Dr P KALMBACH Heidelberg for kindly providing Figure 14 to Prof Dr KARIN GoRGAS Heidelberg for allowing the reproduction of Figure 43 to Profs Dr L STOCKINGER and Dr E KAISER for helpful criticism and to all our colleagues in our respective institutes We are especially grateful to Drs H GoLDENBERG and M H TTINGER for continuous discussion to Mrs JuTTA SELBMANN for typing the references and to Mr P KAMPFER and Mr H WAGNER for carefully drawing some of the figures **Peroxisomes** Norbert Latruffe, Maurice Bugaut, 2013-04-17 Discovered and first isolated in 1966 in C De Duve's laboratory peroxisomes organelles which are present in nearly all eukaryotic cells are still not fully understood More than 40 peroxisomal enzymes catalyzing a variety of reactions have been characterized Moreover peroxisomes can be regarded as toxicological indicators several compounds including hypolipemic drugs plasticizers or pesticides trigger their proliferation This proliferation may lead to hepatocarcinogenesis in rodents Interest in peroxisomes stems not only from their biology but also because there is a deficiency of peroxisomal functions in several genetic diseases Some genes involved in inborn errors of peroxisomal function have recently been identified In this manual based on a FEBS Advanced Course on peroxisomes protocols on the following topics are described in detail Isolation and characterization of peroxisomes by ultracentrifugation and immunoblotting gene regulation studied by mRNA isolation hybridization and DNA cell transfection use of cell lines as peroxisome proliferator targets transformation with retrovirus peroxisomes as toxicological markers cytochrome P450 induction drug design and computer analysis of ligand receptor interaction involved in peroxisomal gene expression **The Peroxisome** Colin Masters, Denis Crane, 1995-07-13 The peroxisome is a cellular organelle which performs a vital role in animals and plants Many advances have been made in our understanding of the peroxisome in recent years This book provides a basic introduction to the peroxisome followed by detailed and comprehensive discussion of its structure and function and coverage of human peroxisomal diseases This is an authoritative and readable text presented in a convenient format with numerous

diagrams and chapter summaries suitable for students and researchers in the biomedical sciences

Plant Peroxisomes
Anthony H.C. Huang, 2012-12-02 Plant Peroxisomes deals with the biogenesis of plant peroxisomes and its relevance to the proposed model for peroxisome biogenesis in germinated seeds The book is divided into seven chapters that discuss the history cytochemistry morphology properties isolation metabolism enzymology and ontogeny of plant peroxisomes The book first explains how advances in electron microscopy and cell fractionation studies have led to the detection of peroxisome The subsequent chapters discuss the types and metabolic functions of plant peroxisomes and the cytochemical procedures for establishing the localization of specific enzymes and for analyzing peroxisome distribution in nonflowering plants algae and fungi A chapter presents methods of peroxisome isolation from various tissues and the physical and chemical properties of the isolated organelles Considerable chapters are devoted to the metabolic functions enzymatic activities development of their form and biochemistry of peroxisomes Several key enzymes of the glycolate pathway of photorespiration found in leaf peroxisomes are presented A discussion on the physiology of plant peroxisomes is provided This book will be of value to professional scientists and graduate students concerned with plant metabolism and development

Hepatotoxicology
Robert G. Meeks, Steadman Harrison, 2020-01-16 This book is destined to serve as a classic reference source to which researchers can turn for a historical perspective and basic information on the physiology biochemistry and pathology of the liver Major areas covered in the book include histological organization classification of chemical induced injury stages of cellular injury and xenobiotic metabolism Chapters discussing the use of biochemical methods to determine liver damage the effects of various chemical agents of the liver and hepatocarcinogenesis are also presented Toxicologists physiologists physicians biochemists industrial hygienists and others interested in the effects of chemical agents on the structure and function will find this book to be an indispensable source of information

Cellular Organelles and the Extracellular Matrix
Edward Bittar, 1996-01-04 This volume is in two parts The first contains the remaining chapters on cellular organelles and several chapters relating to organelle disorders An account of mitochondriopathies is given in the chapter on the mitochondrion rather than in a separate one The subject matter of this part of the volume shows quite clearly that the interdisciplinary approach to the study of organelles has shed considerable light on the nature of the mechanisms underlying the etiology and pathobiology of many of these disorders As an example mutations in the genes encoding integral membrane proteins are found to lead to disturbances in peroxisome assembly It is also interesting and significant that mistargeting of protein is now thought to be another cause It will be revealing to see whether mistargeting is the result of mutations in the genes encoding chaperones The second part of the volume is concerned with the extracellular matrix It sets out to show that a vast body of new knowledge of the extracellular matrix is available to us Take for example the integrin family of cell adhesion receptors It turns out that integrins play a key role not only in adhesion but also in coupling signals to the nucleus via the cytoskeleton As for fibronectins they seem to link the matrix with the cytoskeleton by interacting with integrins

Collagen molecules are dealt with in the last two chapters The boundaries of collagen in disease are defined by drawing a clear line of demarcation between systemic connective tissue disorders e g scleroderma better known as autoimmune diseases and the heritable and the heritable diseases such as osteogenesis imperfect and the Marfan syndrome This classification takes into account a second group of acquired disorders of collagen forming tissues in which regional fibrosis is the hallmark Liver cirrhosis and pulmonary fibrosis are prime examples The decision to place Volumes 2 and 3 before those dealing with cell chemistry was not easily made It was based on the view that most students will have had an undergraduate course in biochemistry of cell biology or both courses and that they could go to Volumes 4 7 in which the subject of cell chemistry is covered and then return to Volumes 2 and 3

Walker's Pediatric Gastrointestinal Disease Ronald E. Kleinman,Olivier-Jean Goulet,Giorgina Mieli-Vergani,Ian R. Sanderson,Philip M. Sherman,Benjamin L. Shneider,2018-06-04

□□□□□□□□,1981 **Current Catalog** National Library of Medicine (U.S.),1982 First multi year cumulation covers six years 1965 70 **National Library of Medicine Current Catalog** National Library of Medicine (U.S.),1982

Molecular Basis of Membrane-Associated Diseases Angelo Azzi,Zdenek Drahota,Sergio Papa,2012-12-06 Biological membranes are often effected by diseases Molecular events leading to or arising from pathological changes in the course of different diseases are as yet not clearly understood This competent study by leading experts covers changes of the cellular environment membranes and the metabolic functions during tissue growth and differentiation as well as aspects of abnormal organelle function in lysosomal storage diseases peroxisomal and mitochondrial disorders enzyme defects and regulatory defects of receptors due to oncogenes *European Journal of Clinical Chemistry and Clinical Biochemistry* ,1991

International Review of Cytology ,2000-06-22 International Review of Cytology presents current advances and comprehensive reviews in cell biology both plant and animal Articles address structure and control of gene expression nucleocytoplasmic interactions control of cell development and differentiation and cell transformation and growth Authored by some of the foremost scientists in the field each volume provides up to date information and directions for future research Key Features Cellular and Molecular Biology of Capacitation and Acrosome Reaction in Spermatozoa Growth Factors and Epithelial Stromal Interactions in Prostate Cancer Development PCR Detected Genome Polymorphism in Malignant Cell Growth Cellulose Microfibrils in Plants Biosynthesis Deposition and Integration into the Cell Wall Cell Biology of Peroxisomes and Their Characteristics in Aquatic Organisms Cellular Responses to Vasectomy *Biological Chemistry of Organelle Formation* T. Bücher,W. Sebald,H. Weiss,2012-12-06 Eukaryotic cells contain a plurality of organelles distinguished by their specific membranes and contents Their biogenesis occurs by growth and division of preexisting structures rather than de novo Mitochondria and chloroplasts which appear to be descended from prokaryotic ancestors have retained some DNA and the biosynthetic capability for its expression They synthesize however only a few of their proteins themselves Most of their proteins are synthesized on free ribosomes in the cytoplasm and are only assembled in the correct membrane after synthesis

is complete The biogenesis of peroxisomes and glyoxysomes also appears to occur by an incorporation of proteins synthesized first in the cytoplasm Other organelles the Golgi complex lysosomes secretory vesicles and the plasma membrane are formed in a different manner Their proteins are assembled in the membrane of the endoplasmic reticulum during translation by bound ribosomes and they must then be transported to the correct membrane The 1980 Mosbach Colloquium was one of the first attempts to discuss the biogenesis of the various organelles in biochemical terms This was appropriate since the crucial problems now center on the search for signals and receptors that dictate the site of assembly the route taken and the final location of a particular organelle protein The assembly of prokaryotic membranes and the membrane of an animal virus were also discussed since these simpler systems might shed light on the biogenesis of organelles in eukaryotes

Lipid Storage Disorders R. Salvayre, L. Douste-Blazy, S. Gatt, 2012-12-06 This book presents the proceedings of the meeting on Lipid Storage Disorders which took place in Toulouse France in September 14 18 1987 and which was set up as a joint NATO Advanced Research Workshop and INSERM International Symposium The meeting probably was the first truly international symposium devoted entirely to basic as well as applied aspects of lipid metabolism as related to the lipid storage disorders Participants came from Europe USA Israel and Japan and presented data on research in molecular biology and genetics enzymology cell biology as well as medical and epidemiological aspects of normal and pathological lipid metabolism In the latter case special attention was directed to the lysosomal B glucosidase in relation to Gaucher disease and to sphingomyelinase in relation to Niemann Pick disease and two round table discussions were devoted to the two respective items But research on many other lipidoses was presented as lectures or posters and avidly discussed Other topics presented in special sessions were drug induced lipidoses and peroxisomal disorders The meeting ended with a session devoted to medical aspects of disorders of lipid metabolism The symposium which included about 50 lectures and close to 70 posters had an intense scientific character superimposed on a most pleasant and collegial atmosphere Ample time was provided to personal discussions lodging of the participants in the students residence located near the meeting place permitted further contacts between them

Principles and Practice of Medical Genetics Alan E. H. Emery, David L. Rimoim, 1990

Subcellular Fractionation J. M. Graham, D. Rickwood, 1997-01-30 Many investigations into the structure and function of cells and tissues require the isolation of a particular membrane or subcellular component organelle This book covers all the necessary aspects from breaking up the cells homogenization via a variety of separation techniques the isolation and fractionation chapters to characterization of the separated organelles

Molecular & Cell Biology of the Liver Albert V. LeBouton, 2024-12-20 Molecular and Cell Biology of the Liver features the latest research findings regarding liver structure and function A unique feature of the book is the brief science reviews that are included in each chapter which provide essential background information to allow readers to better grasp the subject matter within a chapter The book covers liver biology from the molecular level to groups of liver cells and explains how groups of hepatocytes interact in similar

microenvironments Other important cell types found in the liver are also examined Illustrations ranging from electron micrographs to fully rendered drawings act as visual aids to help readers understand complex structural functional interactions Molecular and Cell Biology of the Liver will benefit hepatologists gastroenterologists cell biologists anatomists toxicologists and other researchers interested in liver structure and function

Nobel Laureates in Medicine or Physiology Daniel M. Fox, Marcia Meldrum, Ira Rezak, 2019-01-15 Originally published in 1990 Nobel Laureates in Medicine or Physiology is a biographical reference work about the recipients of Nobel Prizes in Medicine or Physiology from 1901 1989 Each article is written by an accomplished historian of medicine or science The book is designed to be accessible to students and general readers as well as to specialists in medical science and history Each article combines personal and scientific biography and each has an extensive biography to guide further reading and research

Sialic Acids Roland Schauer, 2012-12-06 Rapid progress in the field of sialic acids has made it desirable to collect the new data about these unique sugars and to continue the series of books on this topic In 1960 A GOTTSCHALK wrote The Chemistry and Biology of Sialic Acids and Related Substances Cambridge University Press and in 1976 A ROSENBERG and C L SCHENGRUND published Biological Roles of Sialic Acids Plenum Press In this book emphasis is given to various modern methods used in the isolation and analysis of sialic acids New approaches to the synthesis of free and bound sialic acids are described and the vast field of occurrence and metabolism of these substances is reviewed Sialidases are dealt with in one of the chapters because sialidases have been recognized as factors of pathophysiological importance As knowledge is increasing about the involvement of sialic acids in many aspects of cell biology another chapter is devoted to these phenomena With this book I intend to demonstrate modern trends in sialic acid chemistry and biochemistry and I hope that it will be of practical use and find its place in laboratories rather than in libraries This publication offers an opportunity to thank all colleagues in many countries including my coworkers at the universities of Bochum and Kiel for their cooperation stimulating discussions and very important useful criticism The continuous cooperation with J F G Vliegenthart and his coworkers Utrecht has been rewarding in many respects

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