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Peroxisomes Peroxisomes in Biology and Medicine Peroxisomes Peroxisomes and their Key Role in Cellular Signaling and Metabolism The Peroxisome Peroxisome Biology: Experimental Models, Peroxisomal Disorders and Neurological Diseases Peroxisomes: Biogenesis, Function, and Role in Human Disease Peroxisomes and Glyoxysomes Peroxisome Biogenesis Peroxisome Biology: Breakthroughs, Challenges and Future Directions Peroxisomes The Metabolic Role of Peroxisome in Health and Disease Peroxisome Biogenesis Peroxisomes Peroxisomes Biogenesis of peroxisomes in relation to disorders of peroxisome assembly Opioid Peptides and Receptors Peroxisomes Functions and Biogenesis of Peroxisomes in Relation to Human Disease Molecular Mechanism of Peroxisome Division Michael Schrader H. Dariush Fahimi Norbert Latruffe Luis A. del Río Colin Masters Gérard Lizard Tsuneo Imanaka Helmut Kindl Tine Wylin Maya Schuldiner Norbert Latruffe Hasan Basri İla Marc Fransen Norbert Latruffe Janardan K. Reddy Erik Wiemer Bernd Walz Frank Roels Tong Guo Peroxisomes Peroxisomes in Biology and Medicine Peroxisomes Peroxisomes and their Key Role in Cellular Signaling and Metabolism The Peroxisome Peroxisome Biology: Experimental Models, Peroxisomal Disorders and Neurological Diseases Peroxisomes: Biogenesis, Function, and Role in Human Disease Peroxisomes and Glyoxysomes Peroxisome Biogenesis Peroxisome Biology: Breakthroughs, Challenges and Future Directions Peroxisomes The Metabolic Role of Peroxisome in Health and Disease Peroxisome Biogenesis Peroxisomes Peroxisomes Biogenesis of peroxisomes in relation to disorders of peroxisome assembly Opioid Peptides and Receptors Peroxisomes Functions and Biogenesis of Peroxisomes in Relation to

Human Disease Molecular Mechanism of Peroxisome Division Michael Schrader H. Dariush Fahimi Norbert Latruffe Luis A. del Río Colin Masters Gérard Lizard Tsuneo Imanaka Helmut Kindl Tine Wylin Maya Schuldiner Norbert Latruffe Hasan Basri İla Marc Fransen Norbert Latruffe Janardan K. Reddy Erik Wiemer Bernd Walz Frank Roels Tong Guo

this fully updated volume assembles a comprehensive collection of methods techniques and strategies to investigate the molecular and cellular biology of peroxisomes in different organisms peroxisome research is on the rise as novel functions and proteins of this dynamic organelle are still being discovered through studies in model systems including humans mice flies plants fungi and yeast and this progress is reflected in the chapters included in this collection written for the highly successful methods in molecular biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls authoritative and up to date peroxisomes methods and protocols second edition serves as an ideal guide for researchers working on peroxisome and organelle based research questions

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

peroxisomes are a class of ubiquitous and dynamic single membrane bounded cell organelles devoid of dna with an essentially oxidative type of metabolism in recent years it has become increasingly clear that peroxisomes are involved in a range of important cellular functions in almost all eukaryotic cells in higher eukaryotes including humans peroxisomes catalyze ether phospholipids biosynthesis fatty acid alpha oxidation glyoxylate detoxification etc and in humans peroxisomes are associated with several important genetic diseases in plants peroxisomes carry out the fatty acid beta oxidation photorespiration metabolism of ros rns and rss photomorphogenesis biosynthesis of phytohormones senescence and defence against pathogens and herbivores in recent years it has been postulated a possible contribution of peroxisomes to cellular signaling in this volume an updated view of the capacity and function of peroxisomes from human animal fungal and plant origin as cell generators of different signal molecules involved in distinct processes of high physiological importance is presented

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

this book provides an overview of the biology and biochemistry of peroxisomes and discusses the contribution of these organelles to peroxisomal and neurodegenerative diseases it begins with a detailed introduction to the biogenesis and metabolic functions of peroxisomes and highlights their role in oxidative stress and in lipid metabolism such as fatty acid oxidation the following chapters focus on the molecular and clinical aspects of peroxisomal disorders caused by defects in peroxisomal function in particular the biological aspects of peroxisomal biogenesis disorders such as zellweger syndrome and heimler syndrome are discussed this includes their underlying genetic causes as well as the biochemical and metabolic defects associated with the disorders in addition several chapters cover recent observations suggesting an association between peroxisomal dysfunction and neurodegenerative diseases such as alzheimer s multiple sclerosis and other degenerative cerebellar pathologies the final section of the book discusses important cell and animal models for studying the role of peroxisomes in human diseases and presents current therapeutic strategies for their treatment this book deals with a highly topical subject that is at the heart of current research and represents a valuable contribution for all students and researchers who want to understand the complex biology of peroxisomes and their role in human diseases

this book provides readers with a comprehensive overview of peroxisomes and their role in human diseases it starts by describing the history of peroxisome research and then examines in detail the current understanding of the biogenesis and function of peroxisomes it then focuses on peroxisomal disorders and the involvement of peroxisomes in cancer and age related diseases discussing in detail the use of model organisms to elucidate the pathogenesis of peroxisomal disorders and the physiological importance of peroxisomal proteins further the book examines diagnostic and therapeutic strategies in peroxisomal disorders as well as significant recent advances lastly it addresses various topics in peroxisome research including the isolation of peroxisomes from mammalian tissues and cells the structural biology of peroxisomal

proteins the lipidomics of peroxisomal disorders the value of exome sequencing and neuropsychological testing in x linked adrenoleukodystrophy given its scope the book is a valuable resource for postgraduate students and researchers in the life sciences and clinicians in the fields of internal medicine pediatrics and neurology

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

one hundred proceedings papers from the june and july symposium of the same name as the title held in aspen colorado 1995 the contributing scientists demonstrate the recent growth of knowledge in the field of peroxisome biogenesis peroxisomal protein targeting signals and their receptors peroxi

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