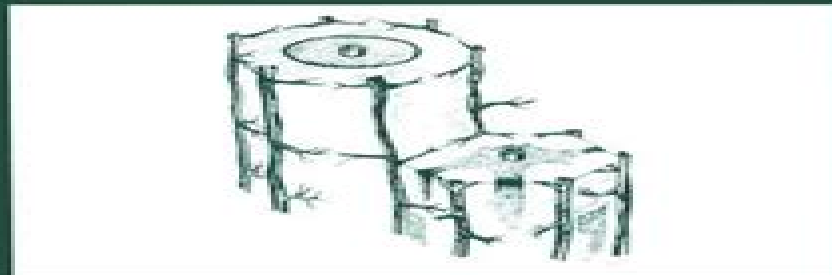




Regulation of Hepatic Metabolism

Intra- and Intercellular Compartmentation



Edited by
Ronald G. Thurman, Frederick C. Kauffman,
and Kurt Jungermann

Regulation Of Hepatic Metabolism Intra And Intercellular Compartmentation

Helmut Acker



Regulation Of Hepatic Metabolism Intra And Intercellular Compartmentation:

Regulation of Hepatic Metabolism K. Jungermann, F.C. Kauffman, R.G. Thurman, 2012-12-06 The liver is an exceptionally complex and diverse organ that functions both as an exocrine and an endocrine gland. It secretes bile which contains many constituents in addition to bile salts and it synthesizes and releases many substances in response to the body's demands including prohormones, albumin, clotting factors, glucose, fatty acids and various lipoproteins. It has a dual blood supply providing a rich mixture of nutrients and other absorbed substances via the portal vein and oxygen-rich blood via the hepatic artery. This functional heterogeneity is accompanied by cellular heterogeneity. The liver contains many cell types including hepatic parenchymal cells, Kupffer cells, Ito cells and endothelial cells. The most abundant cell type, the parenchymal cells, are biochemically and structurally heterogeneous. The cells in the oxygen-rich areas of the portal triad appear more dependent on oxidative metabolism, whereas those around the central vein, pericentral, perivenous or centrilobular areas are more dependent upon an anaerobic mechanism. Throughout this volume the latter three terms are used synonymously by various authors to indicate the five to eight layers of cells radiating from the central vein. Structural and metabolic heterogeneity of hepatic parenchymal cells has been demonstrated by a variety of approaches including histochemical, ultrastructural and ultramicrobiochemical studies. This microheterogeneity is linked to the physiological functions of the liver and its response to injurious substances.

Models for Assessing Drug Absorption and Metabolism Ronald T. Borchardt, Philip L. Smith, Glynn Wilson, 2013-06-29 Pharmaceutical scientists in industry and academia will appreciate this single reference for its detailed experimental procedures for conducting biopharmaceutical studies. This well-illustrated guide allows them to establish, validate and implement commonly used in situ and in vitro model systems. Chapters provide ready access to these methodologies for studies of the intestinal, buccal, nasal and respiratory, vaginal, ocular and dermal epithelium as well as the endothelial and elimination barriers.

Essays in Biochemistry K. F. Tipton, 2014-11-26 *Essays in Biochemistry* Volume 25 provides information on the developments in the continually changing field of biochemistry. Each chapter of the book is written by an expert on the area of research. The volume contains contributions that deal with such topics as intracellular protein degradation, the metabolic heterogeneity of liver parenchymal cells and the biochemistry of ethanol metabolism and the pathogenesis of alcoholic liver disease (ALD). Biochemistry and neurochemistry in the 1800 and their origins in comparative animal chemistry is discussed extensively in the final chapter. Biochemists will find the book very informative.

Integration of Mitochondrial Function J.J. Lemasters, C.R. Hackenbrock, R.G. Thurman, H.V. Westerhoff, 2013-11-11 In aerobic tissues such as heart, brain, kidney, liver and brown fat, mitochondria account for more than 20% of cell protein and play an essential role in respiration, ATP formation, ketogenesis, gluconeogenesis, amino acid metabolism, ureagenesis, thermogenesis and a variety of other metabolic activities. The mechanisms by which these activities are integrated and regulated within the overall context of cellular physiology is of much current research interest. In order to bring together

scientists examining the various diverse aspects of this overall problem an International Conference on INTEGRATION OF MITOCHONDRIAL FUNCTION was held June 4-7 1987 at the Hanes Art Center on the campus of the University of North Carolina at Chapel Hill The chapters of this volume derive from presentations made at this conference The focus of INTEGRATION OF MITOCHONDRIAL FUNCTION is on significant new experimental and theoretical advances concerning integration of mitochondrial function at the organelle cell tissue and whole organism levels of organization

Nutritional Toxicology Volume 2 John N. Hathcock, 2013-06-11 *Nutritional Toxicology Volume II* discusses the various interactions between nutritional phenomena and toxicologic processes It addresses particular subjects that have become substantially more important through the development of new knowledge significant increases in knowledge or increased awareness of potential effects on human health and well being The implications of such knowledge have impact on basic research toxicity testing public health food and agriculture programs and food safety regulation The book begins with a review of the role and importance of macro and micronutrients on detoxification processes of foreign compounds after absorption This is followed by separate chapters on mixed function oxidation in the liver the metabolic and nutritional effects of ethanol the effects of malnutrition on drug metabolism interaction of nutrient intake with DNA and chromatin and how such interactions may affect the process of toxicogenesis in the nucleus Subsequent chapters cover mutagens in cooked foods food sensitivities anatomical cardiovascular and behavioral effects of dietary caffeine the toxicology of dietary tin aluminum and selenium and the toxicology of pesticides in foods

Advances in Radiation Biology V14 John Lett, 2012-12-02 *Advances in Radiation Biology Volume 14* Relative Radiation Sensitivities of Human Organ Systems Part II focuses on radiation sensitivities of particular human organ systems The sensitivities are then assessed based on the severity and the rapidity in which the effects of radiation manifest The opening chapter surveys the clinical and experimental data on approaches toward the prevention of bladder complications in clinical radiotherapy A discussion on HeLa cells which are of special importance in human cervical cancer therapy is then presented In presenting this topic this book emphasizes radiation sensitivity and radiobiology of tumors of the cervix of the female genital tract Chapter 3 briefly covers imaging techniques for hypothalamic pituitary dysfunction diagnosis and introduces hormonal therapy for remarkable improvements in both physical and mental status of patients The subsequent chapters discuss basic radiobiology of the thyroid in experimental animal and the late effects of therapeutic and low level radiation in humans The radiation damages in bone and cartilage and the changes occurring in the various types of vessels during radiation therapy are also discussed Chapter 7 presents the basic biology of spermatogenesis as it applies to the understanding of radiation effects This chapter also explains the studies of rodents as it applies to subhuman primates and to man Moreover it considers as well the mechanisms of radiation damage to the testis as elucidated by experimental studies of rodents and subhuman primates Finally it presents the limited data available on man and discusses these data in terms of the biology of the system known from experimental studies The concluding chapter

describes the features of radiation induced hepatic injury ranging from asymptomatic biochemical or a radiographic abnormality to fulminant fatal hepatic failure Radiation biologists will greatly benefit from this book especially those who are involved in dose fractionation in radiation therapy

Whole Organ Approaches to Cellular Metabolism James Bassingthwaite, Carl A. Goresky, John H. Linehan, 2012-12-06 The field of capillary tissue exchange physiology has been galvanized twice in the past 25 years A 1969 conference at the National Academy of Sciences in Copenhagen resulted in the book *Capillary Permeability The Transfer of Molecules and Ions Between the Capillary Blood and the Tissue* Crone and Lassen 1970 It focused on the physiochemical aspects of transcapillary water and solute transport The field has matured considerably since This volume was designed as the successor to the 1970 book and was created at a gathering of the authors at McGill University It too captures the breadth of a field that has been dramatically enriched by numerous technical and conceptual advances In 1970 it was already known that the capillary wall was not merely a cellophane bag exerting steric hindrances on solute particles Instead the endothelial surface was recognized as the site of binding reactions and permeation by passive or carrier mediated transport Furthermore the cells of the blood could traverse evanescent wide openings in the zippered clefts Today research priorities have turned more to cell cell interactions toward understanding the utility of the gap junctional connections between endothelial cells and neighboring smooth muscle cells neuronal twigs and the parenchymal cells of organs New discoveries in the past few years have revealed the critical importance of the close relationships between the endothelial cells and the parenchymal cells

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

Systems Biology and Bioinformatics in Gastroenterology and Hepatology Steven Dooley, Kai Breuhahn, Andreas Teufel, 2020-01-03

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 on 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 Hepatic Transport and Bile Secretion Nicola Tavoloni, Paul D. Berk, 1993 **Cell Intercommunication** Walmore C. De Mello, 2018-01-18 This important publication addresses intercellular communication in health and disease It includes recent advances in morphology and chemical organization of gap junctions It discusses the possible role of intercellular channels in excitable and non excitable tissues The book presents modulation of junctional permeability as well as the possible role of cell communication in embryonic development and growth The text concludes with a synthetic view of the role of gap junctions and potential implications to cardiology oncology and other areas of pathology This volume is important to professionals in pharmacology physiology biochemistry biomedical science pathobiology pathology molecular genetics toxicology and human development Mitochondrial Dysfunction Lawrence H. Lash, Dean P. Jones, 2013-10-22 Methods in Toxicology Volume 2 Mitochondrial Dysfunction provides a source of methods techniques and experimental approaches for studying the role of abnormal mitochondrial function in cell injury The book discusses the methods for the preparation and basic functional assessment of mitochondria from liver kidney muscle and brain the methods for assessing mitochondrial dysfunction in vivo and in intact organs and the structural aspects of mitochondrial dysfunction are addressed The text also describes chemical detoxification and metabolism as well as specific metabolic reactions that are especially important targets or indicators of damage The methods for measurement of alterations in fatty acid and phospholipid metabolism and for the analysis and manipulation of oxidative injury and antioxidant systems are also considered The book further tackles additional methods on mitochondrial energetics and transport processes approaches for assessing impaired function of mitochondria and genetic and developmental aspects of mitochondrial disease and toxicology The text also looks into mitochondrial DNA synthesis covalent binding to mitochondrial DNA DNA repair and mitochondrial dysfunction in the context of developing individuals and cellular differentiation Microbiologists toxicologists biochemists and molecular pharmacologists will find the book invaluable Liver and Environmental Xenobiotics S.V.S. Rana, K. Taketa, 2013-11-11 The general populations are incidentally exposed to a wide variety of xenobiotics as a consequence of the pollution of the environment by industrial and agricultural chemicals Xenobiotics entering the animal will undergo one or more of the following fate a elimination unchanged b metabolism by enzymes c spontaneous chemical transformation and d remain unchanged in the body The actions of xenobiotics on the body exhibit certain specificity depending upon the compound s chemical structure and reactivity Since the processes of metabolism change these chemical properties of a xenobiotic bewildering number of reactions continue to pose new challenges to toxicologists and pharmacologists It necessitates periodic and precise revision of the subject This book contains invited contributions from learned colleagues that offer an excellent survey of and profound insight into the disposition and metabolism of a few environmentally and industrially significant xenobiotics The topics range from an assessment of drug

metabolising enzymes in the liver DNA damage by reactive oxygen species generated by pesticides role of NO in liver injury hepatotrophic growth factor in liver regeneration extracellular matrix in the liver oncogene expression in liver injury the hepatocarcinogenesis to oxidative stress and undifferentiated gene expression Detailed analysis of the validity of liver function tests has been included Last Chapter addresses the problem of apoptosis which plays a key role in the signal transduction system of xenobiotics induced liver injury The reader should appreciate that overall exposure to this field is expanding at a rapid pace and selections had to be made

Drug-Induced Hepatotoxicity Ross Cameron, George Feuer, Felix de la Iglesia, 2012-12-06 The advances in science and medicine we are now experiencing are unprecedented and exciting Life expectancy is prolonged and quality of life is much improved We learn of fabulous new discoveries made at the bench or the bedside every week Many diseases have been totally eliminated others can be significantly improved by new therapeutic formulations Much of the success can be attributed to a better understanding of disease processes and the specific targeting of new and more effective medications As is the case in many areas of successful human endeavour there can be a downside In the case of drugs and chemicals it is their adverse effects which are of concern Of course every effort is made to devise medications that are safe and the need to elucidate and understand mechanisms are crucial yet adverse effects remain a problem They can be unpredictable and diverse Drugs have been shown to induce virtually the whole gamut of human liver pathology from acute fulminant hepatitis to chronic active hepatitis to cirrhosis and even malignancy Hence the possibility of adverse drug effects must be considered in the differential diagnosis of many patients with liver disease This is well recognized and is very important indeed removal of the offending agent can often lead to reversal of the adverse effect This is an area of hepatology where we can really make a difference

Experimental Hepatocarcinogenesis M.B. Roberfroid, V. Pr  at, 2012-12-06 The meeting on experimental hepatocarcinogenesis which took place in Spa Belgium at the end of May 1987 was the Second European Meeting About 100 scientists mostly from Europe but also from the United States met there for three days in a very friendly atmosphere to exchange knowledge and ideas on experimental and human liver carcinogenesis The main topics discussed during the meeting included general reviews on hepatocarcinogenesis experimental models of hepatocarcinogenesis biology of hepatocarcinogenesis and in vitro studies in hepatocarcinogenesis They are all covered by the various chapters of this proceedings volume which reflects the present state of knowledge in this important field of cancer research The final aim of that research is to understand the basic mechanisms of carcinogenesis The liver offers a particularly interesting tool to reach such a goal Indeed its biochemistry its morphology and its physiology are very diverse but relatively well known Various protocols have been developed to produce hepatocellular carcinomas or other malignant tumors Their appearance is most often preceded by phenotypically altered foci and nodules which have been isolated and characterized The major cell populations of normal neoplastic and malignant livers have been cultivated

Oxygen Transport to Tissue VIII Ian S. Longmuir, 2012-12-06 In this volume the policy of review by anonymous referees

and minor correction by the editor has been continued but perhaps should not be extended without an agreed policy statement by the Society Our choice is minimal revision with rapid publication or proper review with some delay in publication The editor wishes to express his gratitude to Ann Richardson Joann Fish Lance Johnson and Philip Weinbrecht for their invaluable help in the preparation of this volume Ian S Longmuir v BRIEF HISTORY OF ISOTT The Society endured a long gestation period During the 1960s its formation was discussed at a number of international meetings devoted to oxygen in biological systems Prominent among a great number of such gatherings were those held at the Institute of Diseases of the Chest London 1960 Bedford College London 1963 Queen Elizabeth College London 1963 and the Seventh Bad Oeynhausen Conference 1967 At first reservations were expressed about the desirability of forming a highly specialized society which might not achieve the critical mass necessary for its continued existence However the 1971 meeting in the Max Planck Institut fur Arbeitsphysiologie Dortmund answered these doubts and Dr Melvin Knisely commenced planning a very successful inaugural meeting in South Carolina At this meeting in 1973 in Charleston and Clemson the Society was formed with the customary remit of the promotion of scientific exchanges

Hepatic Encephalopathy Roger F. Butterworth, Gilles Pomier Layrargues, 2012-12-06

Oxygen Sensing in Tissues Helmut Acker, 2013-03-14 This book covers a wide biological range of problems regarding oxygen sensing in tissues Oxygen sensing is defined as a process in which O₂ reacts with different cellular components to avoid hypoxic cell damages Oxygen sensing contributes to auxiliary mechanisms which help bacteria invertebrates vertebrates and mammals to survive and withstand hypoxic sensations For the first time experts from different disciplines have cooperated in examining various biological systems exhibiting this phenomenon

Liver Diseases George Y. Wu, Catherine Y. Wu, 1991-05-29 This reference presents novel approaches to achieve biological specificity using naturally existing cell surface structures Demonstrating the strategies and logic applied in the design of liver specific agents this resource bridges the gap between basic science and clinical medicine

Regulation Of Hepatic Metabolism Intra And Intercellular Compartmentation Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has become more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Regulation Of Hepatic Metabolism Intra And Intercellular Compartmentation**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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