



Regulation Of Hepatic Metabolism

Frank Lundquist, Niels Tygstrup



Regulation Of Hepatic Metabolism:

Aspects of Regulation of Hepatic Metabolism Raymond S. Ochs, 1979 **Regulation of Hepatic Metabolism**, 1974 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 parachymal cells, Kiipffer 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 centrolobular 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. *Regulation of Hepatic Metabolism* Frank Lundquist, Niels Tygstrup, 1974 Regulation of Hepatic Metabolism Frank Lundquist, Niels Tygstrup, 1974 *Studies on the Hormonal Regulation of Hepatic Metabolism* Kevin M. Conricode, 1990 **Regulation of Hepatic Metabolism Through PGC-1 [alpha]-mediated Pathways** Linda Grasfeder, 2007 PGC 1alpha is a transcriptional coactivator selectively expressed in tissues with high metabolic demands and induced by a variety of metabolic stressors including cold, exercise, and fasting. When expressed, PGC 1alpha can coactivate a number of transcription factors to coordinately activate metabolic pathways that supply tissues and the body with necessary nutrients. PGC 1alpha has emerged as a master controller of mitochondria and many of the processes focused within them, including oxidative phosphorylation, fatty acid oxidation, the TCA cycle, and free radical scavenging. PGC 1alpha also induces gluconeogenesis and expression of glucose transporters, thereby regulating blood glucose levels. Given this integral role in modulating energy homeostasis, understanding how PGC 1alpha functions and what factors regulate its activity could help identify processes and proteins that malfunction in various metabolic disorders. *Research Awards Index*, 1982 **Regulation of Hepatic Metabolism**, 1974 The Warburg Effect Regulation Under Siege: The Intertwined Pathways in Health and Disease Concetta Bubici, Salvatore Papa, 2019-10-17 Many cells, including immune, neuronal, cancer, and stem cells, become dependent on aerobic glycolysis to escape apoptosis and accommodate their bioenergetics needs. How this metabolic change, also known as the Warburg effect, is regulated remains largely unknown. The

Warburg effect has been widely investigated in cancer cells where it was first observed with the aim of decoding the molecular networks controlling its activation for therapeutic purposes This Research Topic aimed to discuss and review all the intracellular signaling regulating the Warburg effect in cancerous and normal non cancerous cells through original research articles mini reviews and reviews

Regulation of Hepatic Glucose Metabolism by Leptin and Insulin Susan Michelle Aiston, University of Newcastle upon Tyne. Department of Diabetes and Metabolism, 2001

The Regulation of Carbohydrate Formation and Utilization in Mammals Carlo M. Veneziale, 1981

Transcriptional Control of Hepatic Metabolism in Physiology Lara Bideyan, 2022 Liver is a key regulator of systemic metabolism in physiology and pathology It maintains cholesterol triglyceride and glucose homeostasis in response to fasting and feeding Transcription factors responsive to hormones and nutrients coordinate many of these responses They regulate gene networks relating to lipid glucose and amino acid metabolism during fasting and feeding and factors such as sex circadian rhythms and dietary content interact with these transcriptional programs as reviewed in chapter 1 Understanding the different players in these processes and how they interact with each other will be key to develop strategies to combat metabolic diseases Recent advances in probing the transcriptional landscape coupled with high throughput sequencing approaches such as assay for transposase accessible chromatin ATAC Seq have enabled the identification of transcriptional regulators of these processes and their interrelationships In chapter 2 I describe results from a screen using ATAC Seq and RNA Seq to profile novel transcriptional regulators of the hepatic response to fasting and feeding We determined GATA4 expression and activity to be upregulated by feeding through insulin Knocking out Gata4 in adult liver impaired the transcriptional and metabolic response to feeding Additionally loss of hepatic GATA4 led to a reduction in HDL cholesterol and to the accumulation of liver triglycerides These effects were accompanied by the downregulation of genes involved in cholesterol efflux and triglyceride hydrolysis and the upregulation of genes involved in lipid uptake Furthermore hepatic GATA4 colocalized and collaborated with Liver X Receptor LXR a key regulator of cholesterol transport In chapter 3 I investigated the dynamics of hepatic LXRs via ATAC Seq and RNA Seq in wild type and LXR alpha Beta knockout liver Loss of LXRs in liver changed the transcriptional regulatory landscape by reducing accessibility at enhancers and increasing accessibility at promoters A broad set of transcription factors that bind enhancers including nuclear receptors had reduced activity based on their motif accessibility showing their reliance on LXRs Moreover this investigation demonstrated that LXR also functions as a transcriptional repressor of certain genes Overall these studies revealed important functions for GATA4 and LXR within hepatic transcriptional networks extending our understanding of transcriptional regulation of hepatic lipid metabolism

Obesity, 2013-01-29 First published in 1943 Vitamins and Hormones is the longest running serial published by Academic Press The Editorial Board now reflects expertise in the field of hormone action vitamin action X ray crystal structure physiology and enzyme mechanisms Under the capable and qualified editorial leadership of Dr Gerald Litwack Vitamins and Hormones continues to publish cutting edge

reviews of interest to endocrinologists biochemists nutritionists pharmacologists cell biologists and molecular biologists Others interested in the structure and function of biologically active molecules like hormones and vitamins will as always turn to this series for comprehensive reviews by leading contributors to this and related disciplines This volume focuses on obesity Contributions from leading authorities Informs and updates on all the latest developments in the field Principles of Diabetes Mellitus Leonid Poretsky,2010-01-24 Principles of Diabetes Mellitus Second Edition is an important update to the comprehensive textbook first published in 2002 and reissued in 2004 It is written for physicians of all specialties who on a daily basis deal with an illness which has reached epidemic proportions The book is also intended for medical students and investigators of all aspects of diabetes The last five years have witnessed major developments in our understanding of diabetes and in therapeutic approaches to this disease Thus in addition to updating all chapters the authors added eight new chapters to the second edition Principles of Diabetes Mellitus Second Edition covers diabetes in all of its aspects genetics epidemiology pathophysiology clinical manifestations therapy and prevention **Neuroendocrine Control of Feeding Behavior** Serge H. Luquet,Riccarda Granata,Hubert Vaudry,2019-11-20 The hypothalamus plays a crucial role in the regulation of food intake and energy homeostasis Hypothalamic neuronal circuits thus represent a privileged target for the treatment of eating disorders and metabolic diseases The present eBook constitutes a unique collection of research articles and reviews that highlight new concepts and recent findings about the neuroendocrine control of feeding behavior

Steroid Hormone Regulation of the Brain Kjell Fuxe,Jan-Åke Gustafsson,Lennart Wetterberg,1981 Steroid Hormone Regulation of the Brain focuses on the advancement of knowledge of the properties of brain steroid receptors and steroid target nerve cells including the actions of gonadal steroids adrenocortical steroids and androgenic steroids on the brain The selection features the work of authors who have inspiringly conducted extensive studies on the action of steroid hormones The book starts with discussions that point out that steroid hormones not only function through intracellular steroid receptors but possibly through steroid membrane actions as well Studies to support this cl Glutamine Dominique Meynial-Denis,2017-03-03 Glutamine Biochemistry Physiology and Clinical Applications describes the different functions of glutamine Gln in animals and humans Gln is both a nutrient and a signaling molecule and its functions go beyond those of a simple metabolic fuel or protein precursor This book has gathered together in an unbiased and critical manner all the available evidence and research on Gln including pathology neurological diseases intestinal diseases critical illness and cancer physiology successful aging catabolic states immunity and exercise Special attention is given to the potential benefit of Gln in states of insulin resistance and the role of Gln as a conditionally essential amino acid The contributors are either pioneers or experts in the area of Gln from all around the globe including Australia Brazil Canada Europe China and the United States This book is a valuable source of information for nutrition scientists medical doctors sports scientists food scientists dietitians and anyone interested in nutrition It is also a valuable resource for students in these fields and will be an

important addition to university libraries **Regulation of Hepatic and Renal Glucose Metabolism in Man** Ola
Björkman, 1980 Enzyme, 1971 The Erti Karger table system 13 p inserted in pocket at end of v 12 no 1

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