



Don estridge middle school summer reading

Name: Avalos Mauritius Cane / Matter: Clinical Biochemistry / Section: 206 / Date: 19/02/2018 Catabolic Route (Degradation) Destroys Complex Molecules Proteins, Polysaccharides, Lipids and converts into simple as carbon dioxid, ammonia and water. 1 General metabolism is the sum of all chemical changes that occur in a cell, tissue or body. There are two main ways to metabolism: 2 anabolic pathways. (Synthesis) Carbohydrate Metabolism Study Metabolic Map is form complex end products of simple precursors A useful vision for tracking the connections between the paths and the best understanding of them. Glycolysis is a complete process for atp generation by dividing glucose into two lactic acid molecules. Gluconeogenesis is the process that occurs in the conversion of pyruvate into glucose. It has 3 differences in glycolysis, which are: 1.- The production of fructose-1, 6- fructose biphosphate. 3.- Glucose production of glucose phosphate. 3.- Glucose phosphate. 3.synthesis of glycogen, this process is coupled with the transport of K+ in the cell. Backup Polysacchaid glycogen, degraded via shortening and deramifying; it will only be dismantled if necessary. Glycogenolysis consists of the removal of glucose from glycogen for use; removed from the non-reducing ends of the glycogen. Intracellular Very fast signals generated from inside the cell, vital for continuous regulation, from now on, of metabolism. Intercellular signals, which are essential for the development and supervivience of the organism. Promotes long-term metabolism integration. It can be mediated by contact of superfices or have communicative joints. Cellular Communication Regulation Second Messenger Systems Conceptual map on carbohydrate metabolism are hormones and neurotrnasmitors that, together with their receptors, perform a number of specific intracellular reactions such as glucose. Name: Avalos Mauritius Rod / Matter: Clinical Biochemistry / Section: 206 / Date: 19/02/2018 Bibliography 1. McGilvery RW. Biochemical concepts. First. Ed. Barcelona, Spain.: Reverté; 1977. 2nd Ferrier DR. Biochemistry. Seventh. Note: Wolters Kluwer. 3. Silva PCGyLV. Notes of Human Biochemistry: Basic course. Second Ed. Barcelona, Spain.: Reverté.; 5. Pertierra AG, Elmo R, Aznar C, Lépez CT. Metabolic biochemistry. First. Ed. Madrid, Spain.: Tébar.; 2001. 7. MK, Farrell SO. Biochemistry. First ed. Pacific Grove, Calif. : Brooks/Cole ; Londo: Thomson Learning; 2007. CARBOHYDRATE METABOLISM 1.1.1. It is the metabolic pathway responsible for the oxidation of glucose to obtain energy for cell1.2. Phase 11.2.1. Glucose is phosphorylated twice and fractions1.2.1.1.1. 1. Glucose synthesis-6-phosphate1.2.1.1.2. 2. Conversion of glucose-6-phosphate into fructose-6-phosphate1.2.1.1.3. 3. Fructose phosphorylation-6-phosphate1.2.1.1.4. 4. Unfold fructose-1,6-diphosphate1.2.1.1.5. 5. Interconversion of glyceraldehyde-3-phosphate and dihydroxyzetophosphate1.3.1.1.1. 6. Oxidation of glyceraldehyde-3-phosphate1.3.1.1.2. 7. Transfer of phosphate group1.3.1.1.3. 8. Interconversion of 3-phosphoglycerate and 2-phosphoglycerate and 2-phosphoglycerate 1.3.1.1.4. 9. Dehydrogenation of 2-phosphoglycerate 1.3.1.1.5. 10. Synthesis of Pyruvate 1.4.1. 1. Aerobic conditions 1.4.2.1. NADH is recycled for general NAD1.4.2.1.1. Homolactica Fermentation --> 1.4.2.1.2. • Alcoholic fermentation --> Ethanol1.5. 1.1. Hexocinase--> Reaction II --> Activated by its product, which inhibits the action of enzymes and also inhibits ATP.1.5.1.2. PFK-1--> Reaction II --> Activated by Fructose-2,6-Diphosphate and AMP, Inhibitory Citrate, ATP Insulin -->1.5.1.2.1. INSULIN1.5.1.3. Pyruvate kinase -->Reaction X -->This resulting reaction inhibits when ATP or acetyl-CoA is sufficient, and is amplified by the presence of fructose-1,6-diphostate and AMP 2. GLUCOGENESIS (anabolic)2.1. What is it?2.1.1. The formation of new glucose molecules from non-carbohydrate-free precursors takes place mainly in the liver.2.1.2. It consists of 10 reactions equal to glycolysis, but in gluconeogenesis irreversible reactions change 2.2. Different reactions equal to glycolysis, but in gluconeogenesis irreversible reactions equal to glycolysis, but irreversible reactions equal to glycolysis, but irreversible reactions equal to glycolysis, but irreversible reactions equal catalyzed by pyruvate carboxylase.2.2.1.2. Oxaloacetate is decarboxylate and phosphorylates of PEP carboxycinase, is powered by hydrolysis of guanosine triphosphate.2.2.1.3. Cells that lack PEP carboxycinase are used by the malate shuttle. Oxaloacetate is transmitted by malate dehydrogenase in malate.2.2.2. 2. Conversion of fructose-1,6diphosphate into fructose-6-phosphate --> irreversible reaction2.2.2.1. • Exergonica reaction2.2.2.2. • Fructose-6-phosphate 2.2.3.1. • Glucose-6-phosphate 2.2.3.1. • Glucose-6-phosph cells, which are transported through the bloodstream to the liver, it is converted into glucose by gluconeogenesis.2.4. Glucose-alanine cycle2.4.1. In the muscle, alanine is formed from pyruvate and then transported through the bloodstream to the liver, it is converted into glucose by gluconeogenesis.2.4. Glucose-alanine cycle2.4.1. Glucose-6-phosphatase2.5.2. • Fructosephosphatase2.5.2. • Fructosephosphate2.5.3. • PEP carboxyicinase --> is activated by acetyl-CoA and inhibited by AMP and fructose-1,6-diphosphate2.5.3. • PEP carboxyicinase --> is activated by acetyl-CoA and inhibited by AMP and fructose-1,6-diphosphate2.5.3. • PEP carboxyicinase --> is activated by acetyl-CoA and inhibited by AMP and fructose-1,6-diphosphate2.5.3. • PEP carboxyicinase --> is activated by acetyl-CoA and inhibited by AMP and fructose-1,6-diphosphate2.5.3. • PEP carboxyicinase --> is activated by acetyl-CoA and inhibited by AMP and fructose-1,6-diphosphate2.5.3. • PEP carboxyicinase --> is activated by acetyl-CoA and inhibited by AMP and fructose-1,6-diphosphate2.5.3. • PEP carboxyicinase --> is activated by acetyl-CoA and inhibited by AMP and fructose-1,6-diphosphate2.5.3. • PEP carboxyicinase --> is activated by acetyl-CoA and inhibited by AMP and fructose-1,6-diphosphate2.5.3. • PEP carboxyicinase --> is activated by acetyl-CoA and inhibited by AMP and fructose-1,6-diphosphate2.5.3. • PEP carboxyicinase --> is activated by acetyl-CoA and inhibited by AMP and fructose-1,6-diphosphate2.5.3. • PEP carboxyicinase --> is activated by acetyl-CoA and inhibited by AMP and fructose-1,6-diphosphate2.5.3. • PEP carboxyicinase --> is activated by acetyl-CoA and inhibited by hydrolyses for the production of 9-phospho-D-gluconate.3.2.1.3. 3. During the oxidative decarboxylation of phosphogluconate produced. Non-oxidative phase3.3.1. Reactions3.3.1.1. 1. Xylulose-5-phosphate transfers a two-carbon unit to ribos-5 phosphate, which produces glyceraldehyde-3-phosphate and sedoheptulse-7-phosphate and fructose-6-phosphate and fructose-6-phosphate are transferred to erythrose-4-phosphate and fructose-6-phosphate and fructose-6-phosphate and fructose-6-phosphate are transferred to erythrose-4-phosphate and fructose-6-phosphate and fructose-6-phosphate are transferred to erythrose-4-phosphate and fructose-6-phosphate and fructose-6-phosphate and fructose-6-phosphate are transferred to erythrose-4-phosphate and fructose-6-phosphate are transferred to erythrose-4-phosphate and fructose-6-phosphate are transferred to erythrose-4-phosphate are transferred to erythrose-4-phosphate are transferred to erythrose-4-phosphate and fructose-6-phosphate are transferred to erythrose-4-phosphate are transferred to erythr phosphate3.4.2. •In the oxidative phase, G-6-PD catalyzes a controlled passage of the phosphate pentose pathway. It is inhibited by NADPH and stimulated by GSSG 4. METABOLISM OF OTHER SUGARS4.1. WHAT IS THIS?4.1.1. The most notable are fructose, galctosis and mowing. These sugars become glycolytic mediators.4.2. GALACTOSA4.2.1. Reactions 4.2.1.1. 1. Galactose is formed in galactose-1 phosphate by the enzyme galactocinase 4.2.1.2. 2. Gactose-1 phosphate is converted into UDP-glucose 4.2.1.4. 4. UDP glucose may lead to glycogen or glucose-1 phosphate in which it enters glucone ogenesis or glycolysis4.3. MANOSA4.3.1. Dispute in response III4.3.1.1. Reactions4.3.1.1.1. 1. Reactions4.3.1.1.2. 2. Fructose-1 phosphate 4.3.1.1.2. 2. Fructose-1 phosphate in the liver4.4.1.1.2. 2. Fructose-1 phosphate in the liver4.4.1.1.2. 2. Fructose-1 phosphate by isomerase4.4. FRUCTUOSA4.4.1. Intervening in response V4.4.1.1. Reactions4.4.1.1.1. 1. Fructose is phosphorylate in fructose-1 phosphate in the liver4.4.1.1.2. 2. Fructose-1 phosphate 4.3.1.1.2. 2. Fructose-1 phosphate 4.3.1.1.1. 1. Fructose is phosphorylate in fructose-1 phosphate 4.3.1.1.2. 2. Fructose-1 phosphate 4.3.1.2. 2. is divided into DHAP and glyceraldehyde-3 phosphate by the reaction of the enzyme fructose-1-phosphate aldolase 5. GLYKOGENSTOFFWECHSEL5.1. CONCEPT5.1.1. Glycogen synthesis and degradation is regulated with caution so that it may contain enough glucose for the body's energy needs, within the metabolism of glycogen are two processes of glycogenesis and glycogenesis controlled by 3 enzymes: insulin, glucagon and epinephrine.5.2. GLUCOGENESIS5.2.1. CONCEPT5.2.1.1. Glycogen synthesis.5.2.2. REACTIONS5.2.2.1. 1. Glucose synthesis-1-phosphate5.2.2.1.1. Glucose-6-phosphate group of the enzyme is transferred into glucose-1 phosphate glucose-1, 6-phosphate, group C-6 is transferred to its residues of the enzyme.5.2.2.2. 2. UDP-glucose synthesis5.2.2.2.1. Glucoside link formation is an endergonic process. Uridine-glucose diphosphate (UDP-glucose) is more reactive than glucose, glucose-1 phospholase.5.2.2.3. 3. Glycogen synthesis from UDP-glucose5.2.2.3.1. Two enzymes are needed from UDP glucose: glycogenlytase catalyzes the transfer of the UDP glucose glycosyl group to the non-reducing ends of glycogen and amyl (1,4-1,6) glucose transferase produces bonds (1,6)5.3. LKONZEPT5.3.1.1. LKONZEPT removal from non-glycogen-reducing ends5.3.2.1.1. Glycogen phosphorylase breaks the  $\alpha$  (1.6) at glycogen branches) form glucose-1-phosphate.5.3.2.2.1. Amylo- $\alpha$  (1.6) -Glucosidase begins to remove branched points  $\alpha$  (1.6) by removing glucose residues. It then removes the only glucose residue attached to each branch inge. Branch.

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