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Livello bibliografico	Monografia
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Nota di contenuto	Intro -- Title Page -- Copyright Page -- Contents -- Preface -- Acknowledgements -- Chapter 1 Introduction to metabolic pathways -- Chapter 2 Biosynthesis of ATP I: ATP, the molecule that powers metabolism -- Chapter 3 Biosynthesis of ATP II: mitochondrial respiratory chain -- Chapter 4 Oxidation of cytosolic NADH: the malate/aspartate shuttle and glycerol phosphate shuttle -- Chapter 5 Metabolism of glucose to provide energy -- Chapter 6 Metabolism of one molecule of glucose yields 31 (or should it be 38?) molecules of ATP -- Chapter 7 Anaerobic metabolism of glucose and glycogen to yield energy as ATP -- Chapter 8 2,3-Bisphosphoglycerate (2,3-BPG) and the red blood cell -- Chapter 9 Metabolism of triacylglycerol to provide energy as ATP -- Chapter 10 Metabolism of glucose to glycogen -- Chapter 11 Glycogen metabolism I -- Chapter 12 Glycogen metabolism II -- Chapter 13 Glycogen metabolism III: regulation of glycogen breakdown (glycogenolysis) -- Chapter 14 Glycogen metabolism IV: regulation of glycogen synthesis (glycogenesis) -- Chapter 15 Pentose phosphate pathway: the production of NADPH and reduced glutathione -- Chapter 16 Regulation of glycolysis: overview exemplified by glycolysis in cardiac

muscle -- Chapter 17 Glycolysis in skeletal muscle: biochemistry of sport and exercise -- Chapter 18 Regulation of gluconeogenesis -- Chapter 19 Regulation of Krebs cycle -- Chapter 20 Mammals cannot synthesize glucose from fatty acids -- Chapter 21 Supermouse: overexpression of cytosolic PEPCK in skeletal muscle causes super-athletic performance -- Chapter 22 Sorbitol, galactitol, glucuronate and xylitol -- Chapter 23 Fructose metabolism -- Chapter 24 Ethanol metabolism -- Chapter 25 Pyruvate/malate cycle and the production of NADPH -- Chapter 26 Metabolism of glucose to fat (triacylglycerol). Chapter 27 Metabolism of glucose to fatty acids and triacylglycerol -- Chapter 28 Glycolysis and the pentose phosphate pathway collaborate in liver to make fat -- Chapter 29 Esterification of fatty acids to triacylglycerol in liver and white adipose tissue -- Chapter 30 Mobilization of fatty acids from adipose tissue I: regulation of lipolysis -- Chapter 31 Mobilization of fatty acids from adipose tissue II: triacylglycerol/fatty acid cycle -- Chapter 32 Glyceroneogenesis -- Chapter 33 Metabolism of protein to fat after feeding -- Chapter 34 Elongation and desaturation of fatty acids -- Chapter 35 Fatty acid oxidation and the carnitine shuttle -- Chapter 36 Ketone bodies -- Chapter 37 Ketone body utilization -- Chapter 38 -Oxidation of unsaturated fatty acids -- Chapter 39 Peroxisomal -oxidation -- Chapter 40 - and -oxidation -- Chapter 41 -Oxidation -- Chapter 42 Cholesterol -- Chapter 43 Steroid hormones and bile salts -- Chapter 44 Biosynthesis of the non-essential amino acids -- Chapter 45 Catabolism of amino acids I -- Chapter 46 Catabolism of amino acids II -- Chapter 47 Metabolism of amino acids to glucose in starvation and during the period immediately after refeeding -- Chapter 48 Disorders of amino acid metabolism -- Chapter 49 Phenylalanine and tyrosine metabolism -- Chapter 50 Tryptophan metabolism: the biosynthesis of NAD⁺, serotonin and melatonin -- Chapter 51 Ornithine cycle for the production of urea: the 'urea cycle' -- Chapter 52 Metabolic channelling I: enzymes are organized to enable channelling of metabolic intermediates -- Chapter 53 Metabolic channelling II: fatty acid synthase -- Chapter 54 Amino acid metabolism, folate metabolism and the '1-carbon pool' I: purine biosynthesis -- Chapter 55 Amino acid metabolism, folate metabolism and the '1-carbon pool' II: pyrimidine biosynthesis. Chapter 56 Krebs uric acid cycle for the disposal of nitrogenous waste -- Chapter 57 Porphyrin metabolism, haem and the bile pigments -- Chapter 58 Metabolic pathways in fasting liver and their disorder in Reye's syndrome -- Chapter 60 Diabetes II: types I and II diabetes, MODY and pancreatic -cell metabolism -- Chapter 61 Diabetes III: type 2 diabetes and dysfunctional liver metabolism -- Index.

Sommario/riassunto

Metabolism at a Glance presents a concise, illustrated summary of metabolism in health and disease. This essential text is progressively appropriate for introductory through to advanced medical and biochemistry courses. It also provides a succinct review of inborn errors of metabolism, and reference for postgraduate medical practitioners and biomedical scientists who need a resource to quickly refresh their knowledge. Fully updated and extensively illustrated, this new edition of Metabolism at a Glance is now in full colour throughout, and includes new coverage of sports biochemistry; the metabolism of lipids, carbohydrates and cholesterol; glyceroneogenesis, α -oxidation and ω -oxidation of fatty acids. It also features the overlooked "Krebs Uric Acid Cycle". Metabolism at a Glance offers an accessible introduction to metabolism, and is ideal as a revision aid for students preparing for undergraduate and USMLE Step 1 exams.

2. Record Nr.	UNICAMPANIAVAN00275857
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