

Chapter 21

INTRODUCTION TO METABOLIC PATHWAYS

0000 The metabolic activities of cells are dictated by two major concerns:

- 00010 1. *The cell has to synthesize its macromolecules.* Proteins have to be synthesized from amino acids, complex carbohydrates from monosaccharides, membrane lipids from fatty acids and other building blocks, and nucleic acids from nucleotides (pathway ① in Fig. 21.1). These biosynthetic processes are called **anabolic**. They require metabolic energy in the form of adenosine triphosphate (ATP).
- 00015 2. *The cell has to generate metabolic energy.* Nutrients must be oxidized to supply ATP for biosynthesis, active membrane transport, cell motility, and muscle contraction. Degradative processes are called **catabolic**. Most ATP is produced during the end-oxidation of metabolic intermediates to CO₂ and H₂O in the mitochondria (pathway ② in Fig. 21.1).

Therefore an unsuspecting nutrient molecule entering a cell has two alternative fates: either it becomes incorporated into a cellular macromolecule, or it is oxidized for the generation of ATP.

00020 The biosynthesis of cellular macromolecules has to be balanced by their degradation (pathway ③ in Fig. 21.1). Under steady-state conditions, the rates of synthesis and degradation are balanced and the amount of the macromolecule remains constant. Different nutrients can also be interconverted through metabolic intermediates. For example, most amino acids can be converted to glucose, and glucose can be converted to amino acids and fatty acids.

ALTERNATIVE SUBSTRATES CAN BE OXIDIZED IN THE BODY

00025 The complete oxidation of carbohydrates and protein yields about 17 kJ/g (4 kcal/g), fat 37 kJ/g (9 kcal/g), and alcohol 29 kJ/g (7 kcal/g). Molecular oxygen is consumed during fuel oxidation, and carbon dioxide is produced:



Glucose



Tripalmitate, a triglyceride

The stoichiometry of O₂ consumption and CO₂ production is described by the respiratory quotient (RQ):

$$RQ = \frac{CO_2 \text{ (produced)}}{O_2 \text{ (consumed)}}$$

The RQ for the oxidation of carbohydrates is 1.0; for fat, about 0.7; and for protein, about 0.8.

00030 Most cells have a choice among alternative substrates including glucose, fatty acids, and amino acids. Others are more specialized. A few cell types, such as neurons and red blood cells, depend mainly or exclusively on glucose for their energy needs.

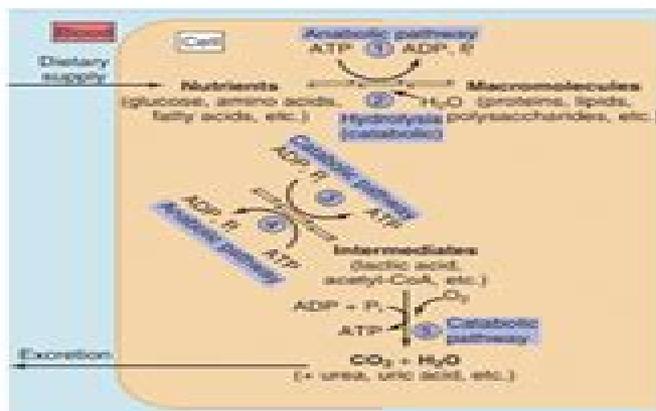


Fig. 21.1 Major types of metabolic activity in the cell. ADP, Adenosine diphosphate; ATP, adenosine triphosphate; CoA, coenzyme A; P_i, inorganic phosphate.

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