

# CHAPTER 24 METABOLISM

What happens to all the nutrients, vitamins, minerals etc, after they are absorbed into the body? How do they get into our cells? What are they used for?

1. Most are used as metabolic fuel → energy primarily in the form of ATP to do cellular work.
2. Some are used for growth and synthesis of necessary molecules for cellular replacement and/or healing.

How do the nutrients get into the cells and what happens when they do?

## METABOLISM

All of the biochemical reactions that occur within the body. Includes:

1. Catabolism
2. Anabolism

## METABOLISM OF MAJOR NUTRIENTS

### CARBOHYDRATES

Simplest to metabolize. All eventually end up as glucose—only sugar molecule utilized at cellular level. Energy from glucose is harvested to make ATP by

1. Glycolysis—anaerobic (net 2 ATP)
2. Pyruvic acid—two from glycolysis
  - a. Goes to anaerobic = 2 ATP
  - b. Goes to Krebs/electron transport chain = 34-36 ATP
3. Krebs cycle (citric acid cycle) → electron transport chain (net 32-34 ATP)

See fig 24.12 p 929

# Chapter 24 Metabolism And Nutrients

**Carroll A. Lutz**



## Chapter 24 Metabolism And Nutrients:

Principles of Human Body Organization and Function Mr. Rohit Manglik,2024-07-30 Providing a foundational understanding of how the human body is structured and functions at the cellular tissue organ and system levels this book is ideal for beginners in health sciences

**Anatomy and Physiology II** J. Gordon Betts,2025-06-23 Anatomy and Physiology II offers a comprehensive and accessible exploration of the human body focusing on its intricate systems and essential functions Designed as an Open Educational Resource OER this textbook is ideal for students in health sciences nursing and related fields who are seeking a deeper understanding of the body s structure and function This volume covers key topics including The microscopic foundations of life through cellular and tissue anatomy The structure and function of the integumentary endocrine cardiovascular respiratory lymphatic and digestive systems Essential concepts of metabolism and nutrition Common disease processes associated with each system With clear explanations diagrams and real world examples this book bridges complex scientific theory with practical application Whether you re continuing your studies in anatomy and physiology or preparing for clinical practice Anatomy and Physiology II provides the foundational knowledge you need for success

**Anatomy and Physiology 2e** J. Gordon Betts,Kelly A. Young,James A. Wise,Eddie Johnson,Brandon Poe,Dean H. Kruse,Oksana Korol,Jody E. Johnson,Mark Womble,Peter DeSaix,2024-09-11 Anatomy and Physiology 2e is developed to meet the scope and sequence for a two semester human anatomy and physiology course for life science and allied health majors The book is organized by body systems The revision focuses on inclusive and equitable instruction and includes new student support Illustrations have been extensively revised to be clearer and more inclusive This is an adaptation of Anatomy and Physiology 2e by OpenStax You can access the textbook as pdf for free at openstax org Minor editorial changes were made to ensure a better ebook reading experience Textbook content produced by OpenStax is licensed under a Creative Commons Attribution 4 0 International License

**Nutrition education in medical schools** United States. Congress. Senate. Committee on Agriculture, Nutrition, and Forestry. Subcommittee on Nutrition,1978

**Pathophysiology for Massage Therapists** Virginia S. Cowen,2015-05-08 Develop the knowledge you need to evaluate a client based on how diseases and disorders affect the systems of the body and the critical thinking skills to apply that knowledge in practice

Human Anatomy and Physiology Roy Hartenstein,1976

Studies in Nutrition Harry Sands Grindley,Ward J. MacNeal,1912

Study Guide Life Beck,1991

Digestive Physiology and Nutrition of Ruminants D. C. Church,1969

Studies in Nutrition: The experimental data of the bio-chemical investigations, by Harry S. Grindley, with the assistance of Frederic W. Gill and others. 1912 Harry Sands Grindley,1912

**Instructor's Guide for Nutrition and Diet Therapy** Carroll A. Lutz,2001

**Pediatric Nutrition Handbook** American Academy of Pediatrics. Committee on Nutrition,1993 Intended for practicing clinicians needing a reference guide on the requirements and metabolism of specific nutrients methods of assessing nutritional status and the nutrition support of healthy infants and children This edition is reorganized and

expanded to reflect the growth of information in clinical nutrition sciences during the past ten years One new chapter describes advances in food technology and novel foods or ingredients of the future Annotation copyrighted by Book News Inc Portland OR *Understanding Normal and Clinical Nutrition* Eleanor Noss Whitney, Corinne Balog Cataldo, Sharon Rady Rolfes, 1998 This comprehensive introductory text emphasises underlying chemical processes It addresses topics such as the nutrition care process and diet therapy organised by organ systems disease states Canadian nutrition needs are covered in an appendix **Chemistry of Food and Nutrition** Henry Clapp Sherman, 1913 Nutrition Walter Hollis Eddy, 1928

**Robinson's Basic Nutrition and Diet Therapy** Emma Seifrit Weigley, Donna H. Mueller, Corinne Hogden Robinson, 1997 Basic nutrition and food choices assessment counseling energy metabolism weight management Also includes nutrition for various age groups infants children teenagers young middle aged and older adults and during pregnancy Additional chapters on nutrition while suffering from diseases as immunity allergic reaction stress infection fever lung burns surgery cardiovascular liver gall bladder pancreas diabetic cancer HIV AIDS The Foundations of Nutrition Mary Swartz Rose, 1927 Encyclopedia of Medical Organizations and Agencies, 1992-93 Karen Backus, 1991-11 **Nutrition and Diet in Health and Disease** James Somerville McLester, 1927 *Human Nutrition* Catherine Geissler, Hilary J. Powers, 2005 Suitable for students studying nutrition but of equal value to others for whom nutrition is only part of a course this authoritative textbook covers every aspect of human nutrition and dietetics

## Decoding **Chapter 24 Metabolism And Nutrients**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Chapter 24 Metabolism And Nutrients**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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