

Biochemical, physiological, and molecular aspects of human nutrition

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Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=9999920551262&lokasi=lokal>

Abstrak

This book presents advanced nutrition in a comprehensive, easy-to-understand format ideal for graduate students in nutritional programs, organic chemistry, physiology, biochemistry, and molecular biology. It focuses on the biology of human nutrition at the molecular, cellular, tissue, and whole-body levels. Full of student-friendly features - chapter outlines; common abbreviations; critical thinking exercises; detailed illustrations; and feature boxes spotlighting key nutritional data, insights, and clinical correlations. In addition, chapters are organized logically into seven units, reflecting the traditional nutrient class divisions. Nutrition Insight boxes take a closer look at basic science and everyday nutrition, going beyond the content presented in the chapter and spotlighting timely topics. Clinical Correlation boxes discuss various nutrition-related problems and help readers make the connections between abnormalities and their effects on normal metabolism. Food Sources and RDAs/AIs across the Life Cycle boxes summarize key information from the USDA National Nutrient Database and the Institute of Medicine into abbreviated, to-the-point lists that easily spotlight the key information related to that content area. Life Cycle Considerations boxes highlight particular nutritional processes or concepts applicable to individuals of various ages and in various stages of the life span. Thinking Critically sections within feature boxes encourage students to apply scientific knowledge to "real-life" situations. A chapter outline and listing of common abbreviations help readers gain an overview of each chapter's content at a glance. Comprehensive cross-referencing by chapters and illustrations is used throughout. Current references and recommended readings introduce readers to the broad range of nutrition-related literature and provide additional tools for research. Information provided by 45 expert contributors. In-depth discussions of the 2005 Dietary Guidelines for Americans and MyPyramid and their implications for nutrition. An entire chapter devoted to nonessential food components and their health benefits, including dietary supplements and the many possible phytonutrients associated with the decreased risk for chronic diseases. All the latest Dietary Reference Intakes (DRIs) incorporated throughout. Nearly 100 new illustrations to help visually simplify complex biochemical, physiological, and molecular processes and concepts. More extensive information about the sources of nutrients and the amounts contained in typical servings of various foods