



Nutritional Biochemistry (Food Science and Technology)

Author Unknown, Tom Brody

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Nutritional Biochemistry is intended for undergraduate college students at junior and senior levels and interested in nutrition. The text provides a solid biochemical approach to nutrition for those embarking on a career in experimental nutrition, dietetics, medicine, or nursing. A global approach is taken, and the commentary blends information from enzymology, metabolism, human and animal nutrition, and medicine to form a coherent whole. The text details the nutrients of the diet and the biochemistry of their digestion, absorption, transport and catabolism to cellular components of structure, storage, and excretion. The regulatory mechanisms - enzymatic, hormonal, and genetic - used in metabolism are revealed, and the concepts in the text are illustrated by "further reading" data from the scientific literature. The text is "picture oriented" and the commentary directed toward explaining graphs, figures, and tables. An underlying theme reveals how experiments are designed and how the results may be interpreted and critiqued.

Nutrient deficiencies are described and current RDAs are listed and discussed. The text is oriented toward diseases that may be treated by nutritional intervention, such as cardiovascular disease, diabetes, severe diarrhea, nutritional anemias, and osteoporosis. When appropriate, the discussion focuses on special issues in food science, infant nutrition, comparative animal nutrition, animal science, exercise nutrition, and nutrition in different parts of the world.

- * Integrates biochemistry and nutrition in a case-oriented method
- * Emphasizes a "hands-on" approach to learning - case histories and clinical and research data illustrate all major points
- * Places emphasis on metabolism - metabolic pathways, enzymology, nutrient requirements (including new RDA values)
- * Contains clinical nutrition applications - new functions of zinc, new drugs for ulcers, monounsaturated fatty acids and their use in treating cardiovascular diseases

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