



# Amino Acids: Biochemistry and Nutrition

*Guoyao Wu*

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Amino acid biochemistry and nutrition spans a broad range of fields including biochemistry, metabolism, physiology, immunology, reproduction, pathology, and cell biology. In the last half-century, there have been many conceptual and technical advancements, from analysis of amino acids by high-performance liquid chromatography and mass spectrometry to molecular cloning of transporters for amino acids and small peptides. **Amino Acids: Biochemistry and Nutrition** presents comprehensive coverage of these scientific developments, providing a useful reference for students and researchers in both biomedicine and agriculture.

The text begins with the discoveries and basic concepts of amino acids, peptides, and proteins, and then moves to protein digestion and absorption of peptides and amino acids. Additional chapters cover cell-, tissue-, and species-specific synthesis and catabolism of amino acids and related nitrogenous substances, as well as the use of isotopes to study amino acid metabolism in cells and the body. The book also details protein synthesis and degradation, regulation of amino acid metabolism, physiological functions of amino acids, and inborn errors of amino acid metabolism. The final chapter discusses dietary requirements of amino acids by humans and other animals.

While emphasizing basic principles and classical concepts of amino acid biochemistry and nutrition, the author includes recent progress in the field. This book also provides concise coverage of major historical developments of the scientific discipline, so that readers will appreciate the past, understand the current state of the knowledge, and explore the future of the field. Each chapter contains select references to provide comprehensive reviews and original experimental data on the topics discussed.

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