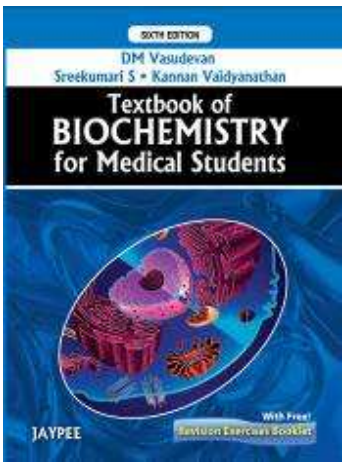


# Textbook of Biochemistry for Medical Students, 6/e

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•1100 figures
Paperback

**Category:** Biochemistry

**Readership:**
Medical students, Biomedical science students, students of human biochemistry

**BIC Code:** M MF

This new edition has been extensively updated and re written to include more information on clinical chemistry and molecular biology. A total redesign has made the text very accessible to the reader with high yield learning tools and many new tables, diagrams and images.

## Key Points

- Totally rewritten and redesigned
- 1100 figures and 250 tables
- Demonstrates clinical relevance of biochemistry



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SECTION - A: CHEMICAL BASIS OF LIFE

(1) Biochemical Perspective to Medicine
(2) Subcellular Organelles and Cell Membranes
(3) Amino Acids: Structure and Properties
(4) Proteins: Structure and Function
(5) Enzymology: General Concepts and Enzyme Kinetics
(6) Isoenzymes and Clinical Enzymology
(7) Chemistry of Carbohydrates
(8) Chemistry of Lipids

SECTION - B: GENERAL METABOLISM

(9) Major Metabolic Pathways of Glucose
(10) Regulation of Blood Sugar; Insulin and Diabetes Mellitus
(11) Minor Metabolic Pathways of Carbohydrates
(12) Metabolism of Fatty Acids
(13) Cholesterol, Lipoproteins and Cardiovascular Diseases
(14) MCFA, PUFA, Prostaglandins and Compound Lipids
(15) Amino Acid Metabolism, General (Urea Cycle, One Carbon Metabolism)
(16) Simple, Hydroxy and Sulphur Containing Amino Acids
(17) Acidic, Basic and Branched Chain Amino Acids
(18) Aromatic Amino Acids
(19) Citric Acid Cycle
(20) Biological Oxidation and Electron Transport Chain

SECTION - C: PROTEINS OF PLASMA AND TISSUES

(21) Plasma Proteins
(22) Immunochemistry
(23) Tissue Proteins in Health and Disease
(24) Heme Synthesis and Breakdown
(25) Hemoglobin

SECTION - D: NUTRITION

(26) Fat Soluble Vitamins (A, D, E, K)
(27) Water Soluble Vitamins (B, C)
(28) Mineral Metabolism
(29) Energy Metabolism and Nutrition
(30) Detoxification and Biotransformation of Xenobiotics
(31) Environmental Pollution and Heavy Metal Poisons
(32) Free Radicals and Antioxidants

SECTION - E: HOMEOSTASIS MECHANISMS

(33) Acid-Base Balance and pH
(34) Electrolyte and Water Balance
(35) Body Fluids
(36) Mechanisms of Action of Hormones
(37) Hypothalamic and Pituitary Hormones
(38) Steroid Hormones
(39) Thyroid Hormones

SECTION - F: MOLECULAR BIOLOGY

(40) Nucleotides: Chemistry and Metabolism
(41) DNA: Structure and Replication
(42) Transcription and Translation
(43) Molecular Genetics and Control of Gene Expression
(44) Recombinant DNA Technology and Gene Therapy