

TEXTBOOK OF BIOCHEMISTRY FOR MEDICAL STUDENTS**Brijesh Rathore**Department of Biochemistry,
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This second edition of this book "**Textbook of Biochemistry For Medical Students**" is extensively revised by Rafi MD & Published by Universities Press Pvt. Ltd, Hyderabad. The book presents a detailed and authoritative exposition of the basic principles and applications of biochemistry. It now covers the complete syllabus prescribed by the Medical Council of India for the MBBS course. Although it is designed as a basic textbook for the undergraduate student, it has resource material for postgraduates and advanced learners in biochemistry and medicine. Six new chapters have been added in Section X, Contemporary topics. The text is organized into ten sections comprising 45 chapters which are arranged in a seamless progression. However, to enable teachers to present topics in the order they desire, there is extensive cross referencing between the chapters. The topics are developed in a manner that encourages the student to develop analytical ability as well as it enhances memory-based learning. Each chapter begins with a glance which gives a birds eye view of the content, thus facilitating better comprehension of the topic. At the end of each chapter, MCQs, Clinical case studies, Problem based exercises and Riddles have been given. This is of immense help to the students preparing for various competitive examinations in India and abroad that include USMLE, PLAB, and All India MD/MS entrance examinations.

The book explains the underlying biochemical mechanisms and the molecular dynamics of body function extensively. Detailed flow charts enable easy understanding, while the diagrams, tables, clinical correlates, boxes, examples and the exercises reinforce the concepts expounded in the main text. The large number of reproducible, full length colour illustrations facilitate visual exploration of the complex metabolic pathways. The tables are organized such that the essence of the chapter is covered in a nutshell, enabling a quick revision before the examination. Numerous line diagrams, in an attractive two-colour format, are provided to illustrate the concepts and help the students in grasping their significance. Medical applications of biochemistry are discussed through extended examples and clinical cases. The chapter summaries help develop a concise review and aid effective learning. Key points have been highlighted and boxed at the end of each topic for

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quick revision of the core concepts.

This book has a flavour of its own both, in scope and content, distinctly different from a number of already existing textbooks on Medical Biochemistry. Print has been enlarged and colour pattern changed to make it more soothing to eyes. Author has successfully met the requirements of a student-centred and need-based, innovative curriculum and compiled it in right proportion with pertinent aspects of basic, applied and clinical concepts relevant to Health Sciences. The "how and why" of the health problems not only seeks to unravel underlying basic mechanisms but asking questions and finding answers evoke yet another method of active learning rather than sitting with voluminous books. While main concepts of chemical and molecular basis of diseases have not been lost sight of and the emerging frontiers of recombinant DNA research and genetic engineering have been given due importance, the student is not burdened with the details linked to and inherent in the present day avalanche of information. A rather balanced view of facts ranging from molecular to organismal levels has been undertaken. Author's approach appears to be to "understand biochemistry through health problems" or better perhaps to "understand health problems through biochemistry".

More emphasis in this edition is to systemize presentation and make reading soothing and pleasurable by deleting redundant details, adding new text and figures, improvement of earlier figures, supplementing text with easy to comprehend flowcharts, without changing basic framework of the book.