



Essentials of Medical Biochemistry, Second Edition: With Clinical Cases

By N. V. Bhagavan, Chung-Eun Ha

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Essentials of Medical Biochemistry, Second Edition: With Clinical Cases is the most condensed, yet detailed biochemistry overview available on the topic. It presents contemporary coverage of the fundamentals of biochemistry, emphasizing relevant physiologic and pathophysiologic biochemical concepts.

Pivotal clinical case studies aid in understanding basic science in the context of diagnosis and treatment of human diseases, and the text illuminates key topics in molecular immunology and hemostasis.

Users will find basic and fundamental concepts that will aid students and professionals in biochemistry, medicine, and other healthcare disciplines. The text is a useful refresher that will help users meet USMLE and other professional licensing examination requirements, providing thorough introductions, key points, multicolored illustrations of chemical structures and figures, fact-filled tables, and recommended reading lists.

- Presents essential biochemical concepts within the context of their biological functions
- Contains key clinical case studies in each chapter to enhance understanding of basic science and aid in further comprehension
- Offers instructional overview figures, flowcharts, tables and multicolored illustrations
- Includes integrated, recommended reading reference lists within the text
- Provides an online ancillary package inclusive of PowerPoint images and more than 500 study questions to aid in comprehension and USMLE exam preparation

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- Rank: #370621 in Books
- Published on: 2015-06-30
- Original language: English
- Number of items: 1
- Dimensions: 10.80" h x 1.30" w x 8.50" l, 4.50 pounds
- Binding: Paperback
- 752 pages

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Editorial Review

Review

"The contents of the book are quite up to date. The book covers basic, traditional biochemical topics as well as recent developments driven by genomics that caught the interests of everyone, including biochemist and health care personnel and future doctors. Adopting such a concise textbook that covers the many aspects of biochemistry and their relevance to diseases would prepare our pre-med students with a broad understanding of the mechanisms of a large number of health problems. The book would also be a very useful starting point for those who are experts in other fields of basic research but have an interest or need to relate basic biochemical processes to and disease mechanisms in a broad range...This book is very concise on most of the topics it covers. It describes the principles to the point the students need without lengthy elaborations that takes too much time that students often find hard to find due to heavy study load. Accompanied by case studies, this is a very good book for medical orientated students."--**Dr. Yuzhu Zhang, Department of Biology, Chemistry, and Physics, Illinois Institute of Technology**

"The writing style is in general easy to read and the topics that I have reviewed seemed to be explained well."--**Dr. William E. Seifert, Department of Biochemistry & Molecular Biology, Purdue University**

"We adopted the Bhagavan text because it is the most comprehensive and authoritative text on the market and is suitable for our students who have already had at least one semester of biochemistry prior to acceptance in medical school...The chapters on genomics and hematology are handled better by Bhagavan than in other books that I'm familiar with. It was probably this coverage in Bhagavan that made it our choice. The hematology section is better than that in most full hematology books."--**Dr. Eugene Allanson, Department of Biochemistry and Molecular Biology, Georgetown University Medical Center**

From the Back Cover

Essentials of Medical Biochemistry: With Clinical Cases, Second Edition presents a contemporary coverage of fundamentals of biochemistry while emphasizing relevant physiologic and pathophysiologic biochemical concepts. Pivotal clinical case studies aid in understanding basic science in the context of diagnosis and treatment of human diseases. The text also illuminates key topics in molecular immunology and hemostasis. These two chapters provide recent advances in autoimmune diseases and disorders of blood clotting and dissolution of clot within their context of underlying biochemical principles.

Essentials of Medical Biochemistry provides basic and fundamental concepts to aid in the lifelong learning for students and professionals in biochemistry, medicine, and other healthcare disciplines. The text is a useful refresher to meet USMLE and other professional licensing examination requirements. Thorough introductions with key points, multicolored illustrations of chemical structures & figures, fact-filled tables, and recommended reading lists for each chapters provide the reader with the most condensed yet detailed biochemistry overview available.

Key Features

- Presents essential biochemical concepts within the context of their biological functions
- Contains key clinical case studies in each chapter to enhance understanding of basic science and clinical correlation and aid in student comprehension
- Offers instructional overview figures, flowcharts, and tables to enhance understanding
- Includes integrated recommended reading reference lists within the text
- Provides an online ancillary package inclusive of PowerPoint images and more than 500 study questions to aid in

comprehension and USMLE exam preparation About the Authors N.V. Bhagavan is an Emeritus Professor in the department of Anatomy, Biochemistry, and Physiology at the John A. Burns School of Medicine, University of Hawaii at Manoa. An active professor, researcher, and teacher, he has many years of experience in both the instruction and practice of clinical biochemistry. Chung-Eun Ha is an Associate Professor in the department of Native Hawaiian Health at the John A. Burns School of Medicine, University of Hawaii at Manoa. He has been teaching medical biochemistry to students who come from disadvantaged backgrounds since 2001. He is also actively involved in the various aspects of molecular biology and biochemical research in the field of clinical medicine.

About the Author

N. V. Bhagavan is an Emeritus Professor in the department of Anatomy, Biochemistry, and Physiology at the John A. Burns School of Medicine, University of Hawaii at Manoa.

An active professor, researcher, and teacher, he has many years of experience in both the instruction and practice of clinical biochemistry.

Chung-Eun Ha is an Associate Professor in the department of Native Hawaiian Health at the John A. Burns School of Medicine, University of Hawaii at Manoa. Since 2001, he has been teaching medical biochemistry to students who come from disadvantaged backgrounds. He is also actively involved in the various aspects of molecular biology and biochemical research in the field of clinical medicine.

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