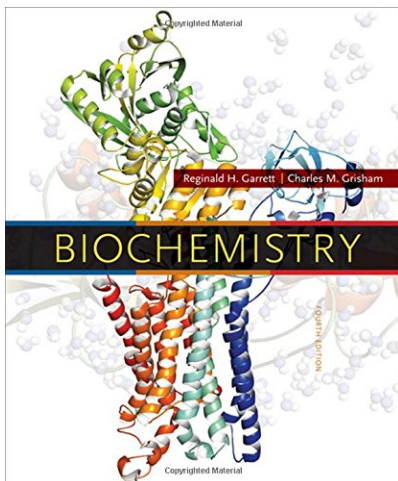


# [PDF] Biochemistry

Reginald H. Garrett, Charles M. Grisham - pdf download free book

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## Description:

**About the Author** Reginald H. Garrett was educated in the Baltimore city public schools and at the Johns Hopkins University, where he received his Ph.D. in biology in 1968. Since that time, he has conducted research and taught biochemistry courses at the University of Virginia, where he is currently Professor of Biology. He is the author of numerous papers and review articles on biochemical, genetic, and molecular biological aspects of inorganic nitrogen metabolism. His early research focused on the pathway of nitrate assimilation in filamentous fungi. His investigations contributed substantially to our understanding of the enzymology, genetics, and regulation of this major pathway of biological nitrogen acquisition. More recently, he has collaborated in systems approaches to the metabolic basis of nutrition-related diseases. His research has been supported by grants from the National Institutes of Health, the National Science Foundation, and private industry. A member of the American Society for Biochemistry and Molecular Biology, Garrett is a former Fulbright Scholar, was twice Visiting Scholar at the University of Cambridge, and was Invited Professor at the University of Toulouse, France.

Charles M. Grisham received his B.S. in chemistry from the Illinois Institute of Technology in 1969 and his Ph.D. in chemistry from the University of Minnesota in 1973. Following a postdoctoral appointment at the Institute for Cancer Research in Philadelphia, he became Professor of Chemistry at the University of Virginia, where he teaches biochemistry, introductory chemistry, and physical chemistry. He has authored numerous papers and review articles on active transport of sodium, potassium, and calcium in mammalian systems, on protein kinase C, and on the applications of NMR and EPR spectroscopy to the study of biological systems. His work has been supported by the National Institutes of Health, the National Science Foundation, the Muscular Dystrophy Association of America, the Research Corporation, the American Heart Association and the American Chemical Society. A member of the American Society for Biochemistry and Molecular Biology, Grisham held the Knapp Chair in Chemistry in 1999 at the University of San Diego; was Visiting Scientist at the Aarhus University Institute of Physiology, Aarhus, Denmark, for two years; and received a Research Career Development Award from the National Institutes of Health.

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Previous (Binomial nomenclature). Next (Biodiversity). Biochemistry (once known as physiological chemistry or biological chemistry) is the study of chemicals and chemical processes that occur in living organisms. It involves investigation of the structures, functions, and syntheses of biological substances, including proteins, DNA (deoxyribonucleic acid), RNA (ribonucleic acid), carbohydrates, lipids, nucleotides, and amino acids. Research in biochemistry has revealed the functions of groups of Biochemistry, study of the chemical substances and processes that occur in plants, animals, and microorganisms and of the changes they undergo during development and life. It deals with the chemistry of life, and as such it draws on the techniques of analytical, organic, and physical chemistry.Â Professor of Biochemistry, School of Medicine and Dentistry, University of Rochester, New York. Editor of Comprehensive Biochemistry. See Article History. Alternative Title: physiological chemistry. Biochemistry applies chemistry concepts to the study of living organisms and the atoms and molecules that comprise them. Find articles on topics such as metabolic pathways and enzymology, biochemical structures and sequences, genome databases, and more.Â Biochemistry. Biochemistry applies chemistry concepts to the study of living organisms and the atoms and molecules that comprise them. Find articles on topics such as The Medical Biochemistry Page is a portal for the understanding of biochemical, metabolic, and physiological processes with an emphasis on medical relevance. Start Your Search Here. Search for: Introduction to The Medical Biochemistry Page. The Medical Biochemistry Page has been a continuously updated and expanding, free educational resource on the internet since 1996. Biochemistry is the branch of science concerned with the chemistry of biological processes. It attempts to utilize the tools and concepts of chemistry, particularly organic and physical chemistry, for elucidation of living systems. The science has been variously referred to as physiological chemistry and as biological chemistry. Biochemists study such things as the structures and physical properties of biological molecules, including the proteins, the carbohydrates, the lipids, and the nucleic acids