

عنوان مقاله:

Practical Biochemistry Principles and Techniques Approach

محل انتشار:

فصلنامه پیشرفت در تحقیقات بیوشیمی و شیمی، دوره 3، شماره 3 (سال: 1399)

تعداد صفحات اصل مقاله: 14

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خلاصه مقاله:

Biochemistry, sometimes called biological chemistry, is the study of chemical processes within and relating to living organisms. Biochemical processes give rise to the complexity of life. A sub-discipline of both biology and chemistry, biochemistry can be divided in three fields; structural biology, enzymology and metabolism. Over the last decades of the 20th century, biochemistry has through these three disciplines become successful at explaining living processes. Almost all areas of the life sciences are being uncovered and developed by biochemical methodology and research. Biochemistry focuses on understanding the chemical basis which allows biological molecules to give rise to the processes that occur within living cells and between cells, which in turn relates greatly to the study and understanding of tissues, organs, and organism structure and function. Biochemistry is closely related to molecular biology, the study of the molecular mechanisms of biological phenomena. Much of biochemistry deals with the structures, functions and interactions of biological macromolecules, such as proteins, nucleic acids, carbohydrates and lipids, which provide the structure of cells and perform many of the functions associated with life. Metabolism is the mechanisms by which cells harness energy via chemical reactions. The findings of biochemistry are applied primarily in medicine, nutrition, and agriculture. In medicine, biochemists investigate the causes and cures of diseases. In nutrition, they study how to maintain health wellness and study the effects of nutritional deficiencies. In agriculture, biochemists investigate soil .and fertilizers, and try to discover ways to improve crop cultivation, crop storage and pest control

کلمات کلیدی:

biochemistry, Carbohydrates, Proteins, Lipids

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