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Actually, the rare protein amino acids (for, example, hydroxyproline, hydroxylysine, aminocitric acid, etc.) are derivatives of the 20 major amino acids. Other amino acids do not participate in the protein synthesis; they occur in the cells either in a free state (as metabolites), or are part of nonprotein compounds.

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molecular instruments in which genetic information is expressed, Hormones, Antibodies, transporters, the lens protein, the architectural framework of our tissues and a myriad of substances having distinct biological activities are derived. The type, nature and number of amino acids impart characteristic properties to the proteins.

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organism, we remain aware of the coherence of the substance flow and do more justice to. the laws of life. Biochemistry can teach us to see the human body as a standing wave in a creek. The. standing wave occurs when irregularities in the creek bed (a rock, for instance) cause the. water to form a wave.

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ecular medicine, using biochemistry, cell biology, and genetics to diag-nose and treat disease. Consequently, the basic sciences are becoming more important to the practice of medicine. This puts a new pressure on the student to understand the basis of molecular medicine and the mol-ecular sciences.

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Biochemistry and Molecular Biophysics - artsci.k-state.edu

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CHAPTER-I INTRODUCTION TO BIOCHEMISTRY CELL AND ITS ORGANIZATION

Introduction to Biochemistry Next time you're at the gym, think about the fact that all the cells in your body ... the basic biological building blocks called lipids, carbohydrates, proteins, ... with all particles comingled randomly on a molecular level to form a solution. Water is composed of an oxygen atom and two hydrogen atoms. Oxygen has a

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