# Modern Botany

By Naveen Malviya

Scientific Publishers, 2008. Softcover. Book Condition: New. The present book is a text book on modern topics of Botany. The first chapter of this book is on plasma membrane, wherein, details of transport mechanism is discussed. There are three sections in this book. Section I deals with the biochemistry and metabolism. Section II covers developmental physiology and the Section III is on plant biotechnology. In this section, Ti plasmid, transposable elements and transgenic plants are discussed in details. In this book there are separate chapters on bioinformatics and biosignalling. The text of this book is based on biochemical, physiological and molecular aspects, along with the modern and emerging ideas in Botany. Contents: 1. Plasma membrane Structure, Membrane Model, Movement across cell membrane. Translocators, Pumps, Ion Channels, Aquaporins. SECTION I : BIOCHEMISTRY AND METABOLISM 2. Metabolism and Bioenergetics Metabolism, The Energy state of cell, Laws of Thermodynamics, Free Energy, Components of Electron Transport System, Electron Transport Chain, Phosphorylation. 3. Cell Biochemistry Covalent, Non covalent bonds, Hydrogen bonds, Polar and non polar molecules, Acid Base and Buffers. Biochemistry of Carbohydrate: Monosaccharides, Diasaccharides, Polysaccharides, Starch, Cellulose, Pectin. Biochemistry of Amino acid. Biochemistry of Proteins: Protein Structure. Biochemistry of Lipids: Fats, Steroids, Phospholipids. Biochemistry...

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