



Cellulose: Biosynthesis and Structure

By I. A. Tarchevsky

Springer. Paperback. Book Condition: New. Paperback. 322 pages. Dimensions: 9.0in. x 6.1in. x 0.7in. Cellulose constitutes the most abundant organic material of the biosphere and is widely used in national economies. Despite the tremendous importance of cellulose, elucidation of the mechanism of its synthesis and formation of molecular and supermolecular structures has attracted much less attention than other biopolymers, viz. proteins and nucleic acids. Many textbooks and specialized monographs on cellulose point to the scarcity of our knowledge of the mechanism of biosynthesis of this polymer. Reference may be made to METZLER 1, the author of the three-volume edition Biochemistry. Chemical reactions in Living Cell, who states, In spite of the evident significance of the problem, details of synthesis of cellulose and chitin, built of regular polymeric chains with β -1, 4-linkages, are practically unknown. At the same time, considerable experimental material has accumulated to date which allows us to work out a concept on regularities of alteration in cell wall composition, of main stages in biosynthesis of cellulose, of intracellular localization of the sites responsible for biosynthesis of various cell wall polysaccharides. Certain regularities are revealed concerning the regulation of synthesis of cellulose and other...



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