Cellulose

Preface (The future of Cellulose Research).- Many paths up the mountain: Tracking the evolution of cellulose biosynthesis.- Evolution of the cellulose synthase (CesA) gene family: insights from green algae and seedless plants.- The cellulose synthase superfamily.- Cellulose synthesis in the Arabidopsis secondary cell wall.- From cellulose to mechanical strength: Relationship of the cellulose synthase genes to dry matter accumulation in maize.- Cellulose biosynthesis in forest trees.- Cellulose biosynthesis in Enterbacteriaceae.- In vitro synthesis and analysis of plant (1 to 3)--D-glucans and cellulose: a key step towards the characterization of glucan synthases.- Substrate supply for cellulose synthesis and its stress sensitivity in cotton fiber.- A perspective on the assembly of cellulose-synthesizing complexes: Possible role of KORRIGAN and microtubules in cellulose synthesis in plants.- How cellulose synthase density in the plasma membrane may dictate cell wall texture.- Cellulose synthesizing complexes of a dinoflagellate and other unique algae.- Biogenesis and function of cellulose in the tunicates.- Immunogold labeling of cellulose-synthesizing terminal complexes.- Cellulose Shapes.- Nematic ordered cellulose: its structure and properties.- Biomedical applications of microbial cellulose in burn wound recovery.- Cellulose as a smart material. EAN/ISBN : 9781402053801 Publisher(s): Springer Netherlands Discussed keywords: Biochemie, Zellulose Format: ePub/PDF Author(s): Brown, R. Malcolm - Saxena, Inder M.

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